LG

WASHING MACHINE
SERVICE MANUAL

CAUTION

READ THIS MANUAL CAREFULLY TO DIAGNOSE TROUBLES
CORRECTLY BEFORE OFFERING SERVICE.

MODEL : WD-8050F/WD-1050F/WD-1250F
WD-8050FH/WD-1050FH/WD-1250FH
WD-8052X/WD-1052X
WD-8052XH/WD-1052XH

LG Electronics Inc.

P/No.:3829FR9043S

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1. SPECIFICATION

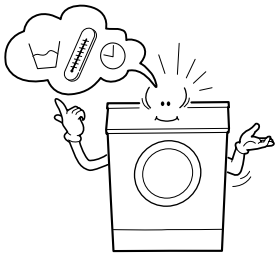
ITEM		WD-1050F(H)/1250F(H)	WD-8050F(H)/8052X(H)/1052X(H)
POWER SUPPLY		AC 220-240V, 50Hz / 60Hz	
PRODUCT WEIGHT		67kg	
ELECTRICITY CONSUMPTION	WASHING	190W	
	SPIN(800rpm)	300W	
	DRAIN MOTOR	32W	
	WASH HEATER	2000W	
REVOLUTION SPEED	WASH	45rpm	
	SPIN	400/600/800/(1000)/(1200) rpm	
OPERATION WATER PRESSURE		0.3-10kgf/§†(30-1000kPa)	
CONTROL TYPE		Electronic	
WASH CAPACITY		7.0kg/6.0kg	
		Synthetic (4.0kg), Delicate (3.0kg) Wool (2.0kg)	
DIMENSION		600mm(W)¡¿600mm(D)¡¿850mm(H)	
WASH PROGRAM		Coloreds, Whites, Synthetic, Delicate, Wool	
RINSE		Super, Normal, Hold	
DOOR SWITCH TYPE		Bi-Metal type	
WATER LEVEL		9 steps (by sensor)	
RESERVATION		From 3 hours to 19 hours	-
SENSING OF THE LAUNDRY AMOUNT		Adopted	
FUZZY LOGIC		Adopted	
DISPLAY OF THE REMAINING TIME		Adopted	-
ERROR DIAGNOSIS		7 items	
POWER AUTO OFF		Adopted	
CHILD LOCK		Adopted	
AUTO RESTART		Adopted	
ECO		Adopted	
RAPID		Adopted	

2. FEATURES & TECHNICAL EXPLANATION

2-1.FEATURES

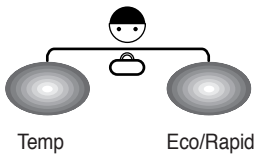
¡ Æ Jumbo drum

LG's jumbo drum can wash about 40% more per load than conventional washing machine. A bigger durm improves the wash performance.



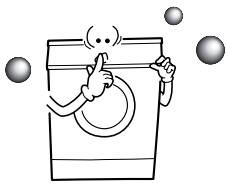
¡ Æ More economical by Fuzzy Logic System

FUZZY Logic System detects the amount of load and water temperature, and then determines the optimum water level and washing time to minimize energy and water consumption.



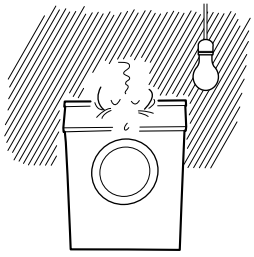
¡ Æ Child-Lock

The Child-Lock system has been developed to prevent children from pressing any button to change the programme during operation.



¡ Æ Low noise speed control system

By sensing the amount of load and balance, evenly distributes load to minimize the spinning noise level.

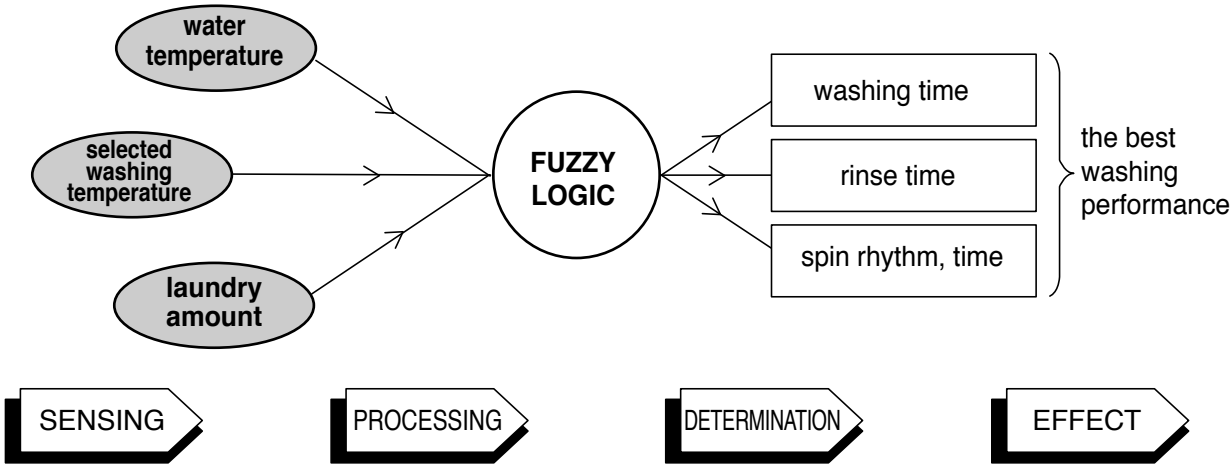


¡ Æ Auto Restart

Although the washing machine is turned off by a power failure, it restarts automatically in its stopped process when power is supplied again. and it will be the same when the machine unplugged in operation is plugged in again.

2-2.DETERMINE WASHING TIME BY FUZZY LOGIC

To get the best washing performance optimal time is determined by sensing of water temperature, selected washing temperature and laundry amount.



2-3.WATER LEVEL CONTROL

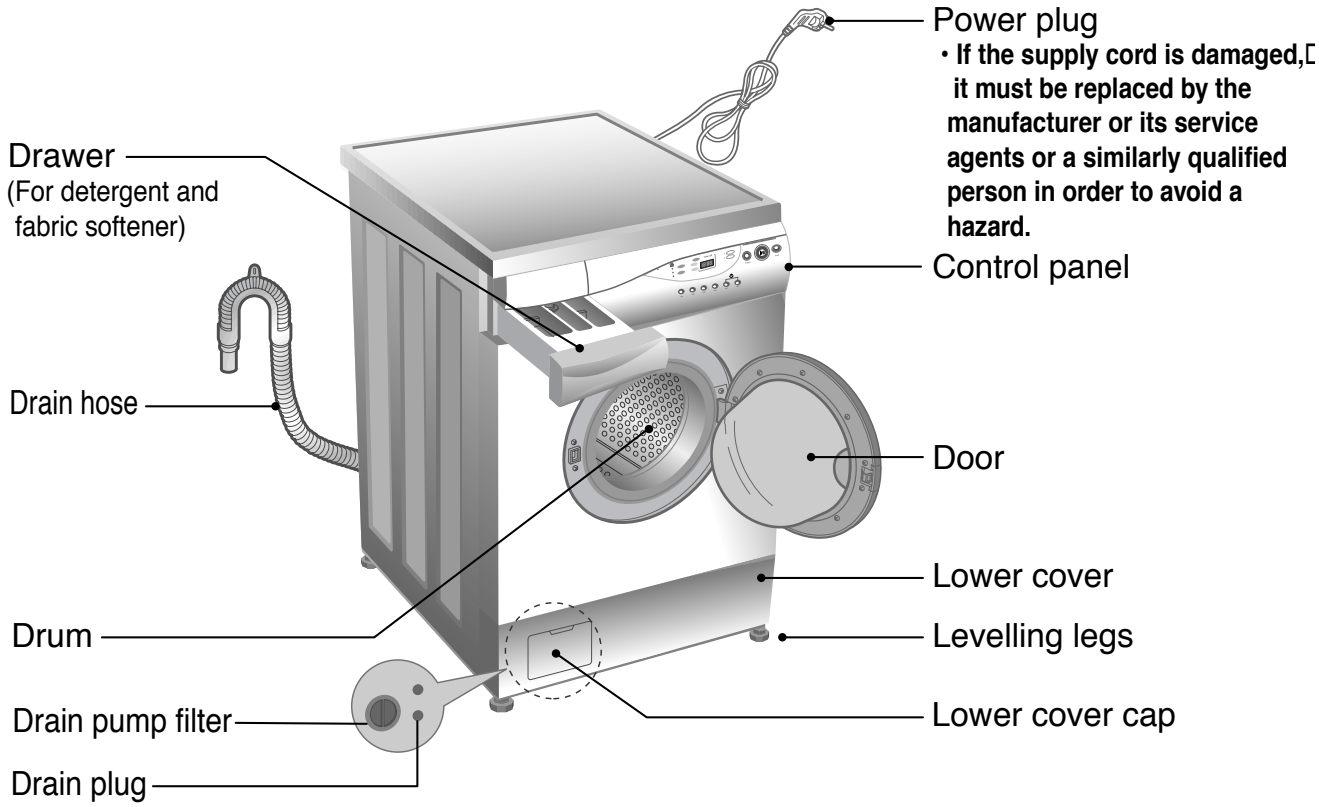
- ¡ This model adopts a pressure sensor which can sense the water level in the tub.
- ¡ When the water level reaches to the preset level water supply is stopped, then washing program proceeds.
- ¡ Spinning does not proceed until the water in the tub reduces to a certain level.

2-4.THE DOOR CAN NOT BE OPENED

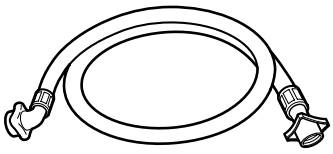
ƒU While program is operating.

ƒU While Door Lock light turns on.

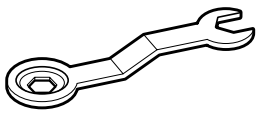
3. PARTS IDENTIFICATION



¡ÆACCESSORIES



Inlet hose



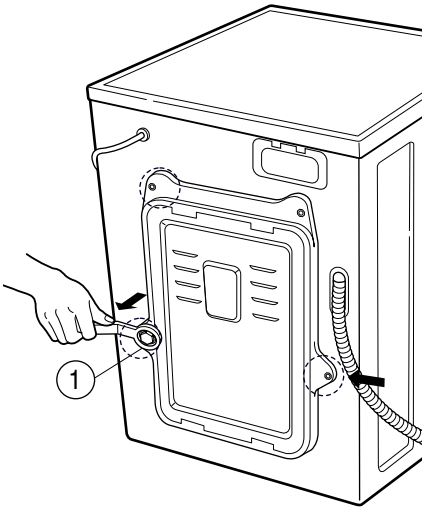
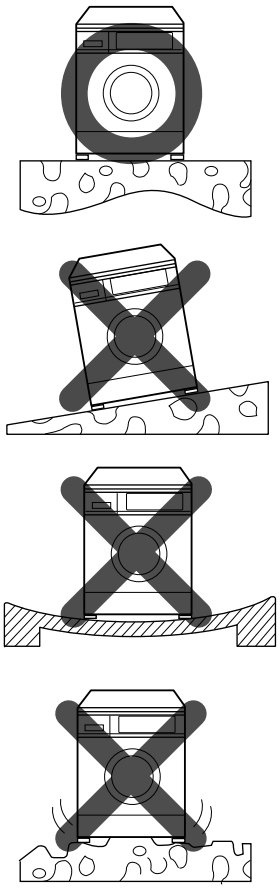
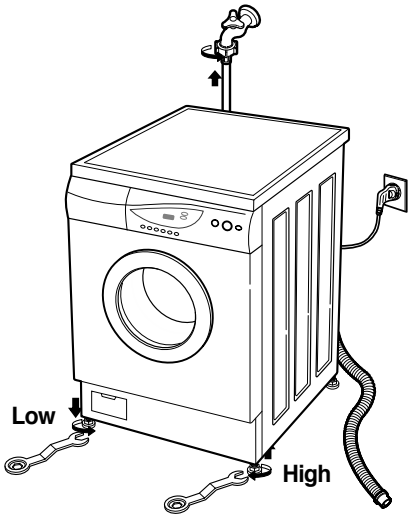
Spanner

4. INSTALLATION

¢ Before servicing ask troubles of customers
¢ Check the adjustment(power supply is 220-240V, remove the transit bolts....)
¢Ł Check the troubles referring to the trouble shooting.
¢Ø Decide service steps referring to disassembly instructions.
¢Œ And then, service and repair.
¢º After servicing, operate the appliance whether it works Q K or NOT.

¡Æ STANDARD INSTALLATION

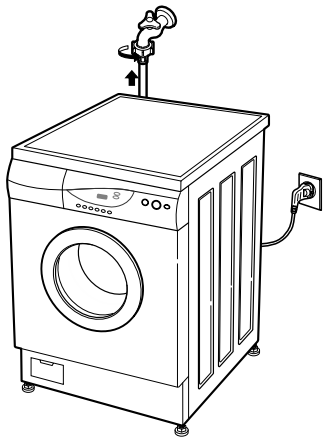
The appliance should be installed as follows.

REMOVE THE TRANSIT BOLTS	INSTALL THE APPLIANCE ON FLAT AND FIRM SURFACE	ADJUST THE HORIZONTAL
ƒU Remove the transit bolts (4EA:¤)with supplied spanner. ƒU Keep the transit bolts and spanner for future use. 		ƒU Turn the leveling feet to set the appliance horizontally.  ƒU The appliance goes up by rotating the feet clockwise. ƒU The appliance come down by rotating the feet counter clockwise.

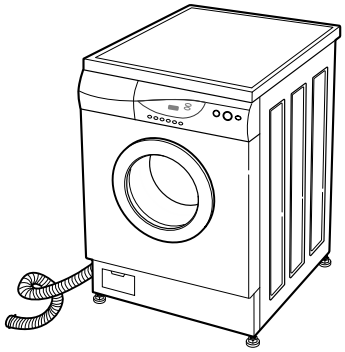
¡Æ HOW TO CONNECT INLET HOSE

ƒUCheck that the rubber packing is inside of the valve connector.

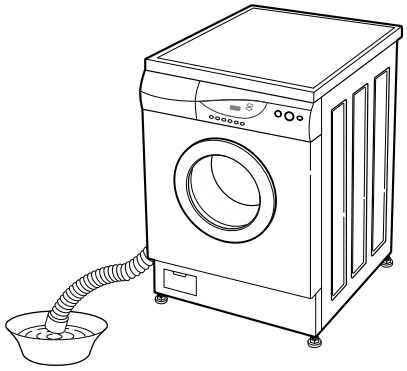
ƒUConnect the inlet hose firmly to prevent leak.



¡ÆCONNECT DRAIN HOSE



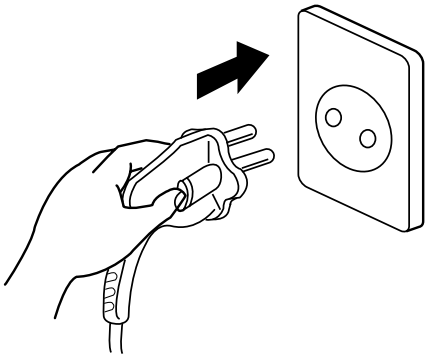
¡ / Make sure that the hose is not twisted.



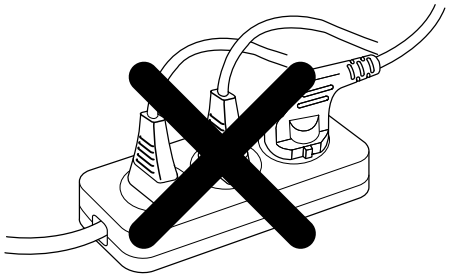
¡ / Avoid submerging the end of the hose.

¡ The drain hose should be placed under 85§fIfrom the floor.

¡ÆCONNECT POWER PLUG



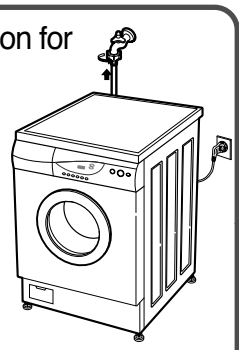
¡ / Connect the power plug to the wall outlet.



¡ / Avoid connecting several electric devices,
It may be the cause of the fire.

£GTEST OPERATION

1 Preparation for washing.

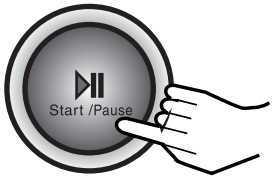


ƒ UConnect the power plug to the outlet.
ƒ UConnect the inlet hose.

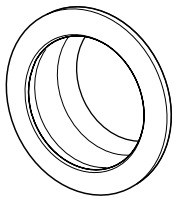
2 Press the power button.

ƒ UIn case of Coloreds program.

3 Press the START/PAUSE button.

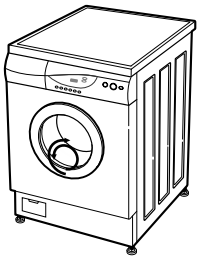


4 Check the water supply.



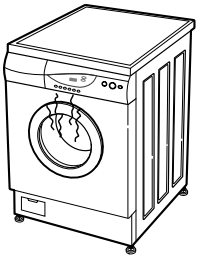
¡ /Check if water is supplied through the detergent dispenser.

5 Check automatic reverse turn.



¡ /Check if the drum rotates clockwise and counterclockwise.

6 Check the water heating.

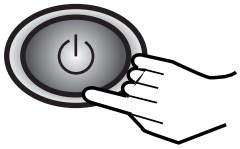


¡ /Press the button¡ ATEMP ¡ B and the present temperature will be displayed.
¡ aWD-1050F(H)/1250F(H) ¡ b

7 Check drain and spin

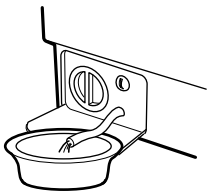
¡ /Turn off Wash and Rinse after pressing the Start/Pause button and start the machine again.
¡ /Check drain and Spin.

8 Power off and open the door



¡ /Power off and then power on.
¡ /Check if the door can be opened after Door Lock lamp turns off.

9 Water removal



¡ /If SVC is needed during check, remove the remaining water by pulling out the hose cap.

5. OPERATION

LED display

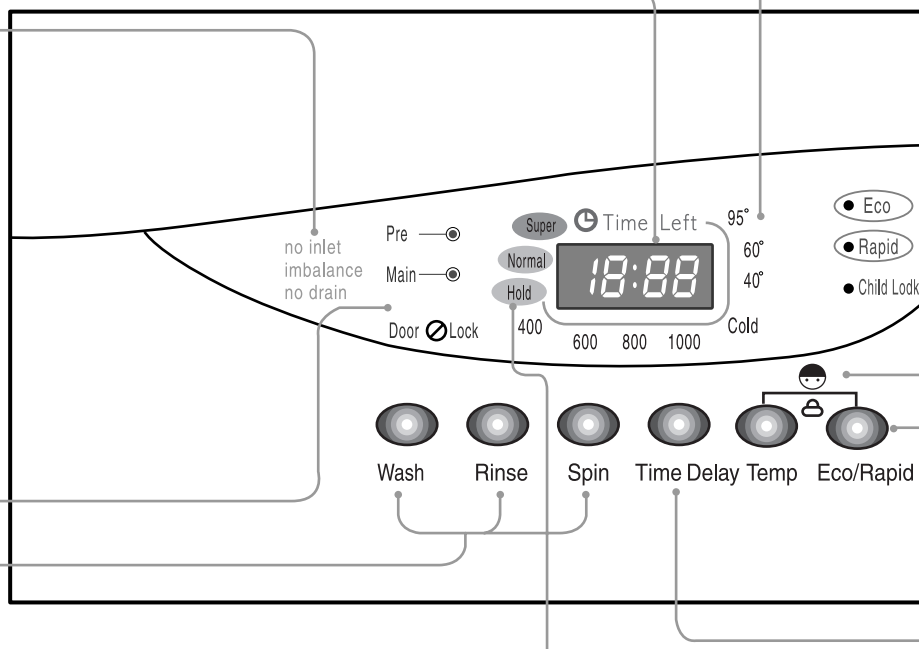
ƒUDisplay the remaining time (Hour : Minute) to finish.
ƒUIn case of abnormal operation, error indications are displayed. (PE FE dE tE)
ƒUSee trouble shooting guide.

Water temperature selector

ƒUPress the button to select water temperature.
ƒUThe water temperature
[40¡ÆC ¤A60¡ÆC ¤Acold] can be selected in Coloreds, Synthetic
ƒU95¡ÆC is selected for Whites only.
ƒUBy pressing the button during operating the washer, the present temperature is displayed.

Error display.

ƒUThe display blinks if there is an error. 14 Refer
ƒUno inlet : Trouble with water supply.
ƒUimbalance : The laundry is tilted to one side.
ƒUno drain : If the drain pump filter is clogged.



Door lock lamp

ƒUIt shows whether the door can be opened or not.
ƒUwhen the lamp is on, the door can't be opened.

For manual wash, rinse and spin speed

ƒUUse these buttons to change wash/rinse/spin
ƒUWhen lamp is off, no selection has been made.
ƒUPrewash is available for Coloreds, Whites, Synthetic

Rinse hold

ƒUIf you desire to leave fabrics in the machine without spinning after rinse to prevent them getting wrinkled, you may select rinse Hold by pressing the Rinse button.
ƒUTo drain and spin, press the Rinse button to turn off the rinse Hold lamp.

h program selector

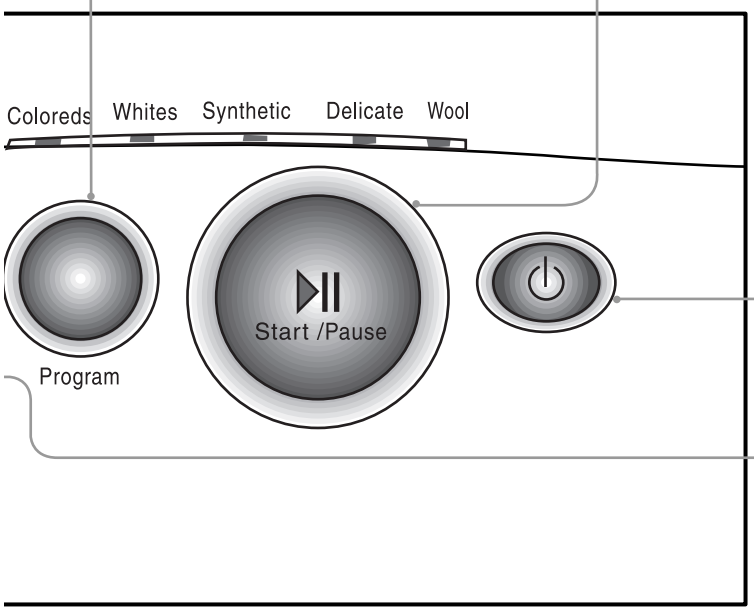
grams can be set depending on the of the laundry.
power button is pressed.
eds program is automatically set.
essing the button, [Coloreds ¤A es¤ASynthetic¤ADelicate¤A Wool] e selected.

Start/Pause button

ƒUUse the button to start or pause wash cycle.
ƒUThe power turns off automatically 4 minutes after the pause button is pressed.

Power button

ƒUPress the button to turn power on and off.



Child - lock

ƒUChild Lock system can be set and canceled by pressing both [Temp] and [Eco/Rapid] button simultaneously.
ƒUOnce Child Lock is set, all button are inoperable.
ƒUChild Lock system can be set anytime even during Power-off, on pause and operation.
ƒUIt is automatically cancelled when an operational error occurs and when the cycles ends.

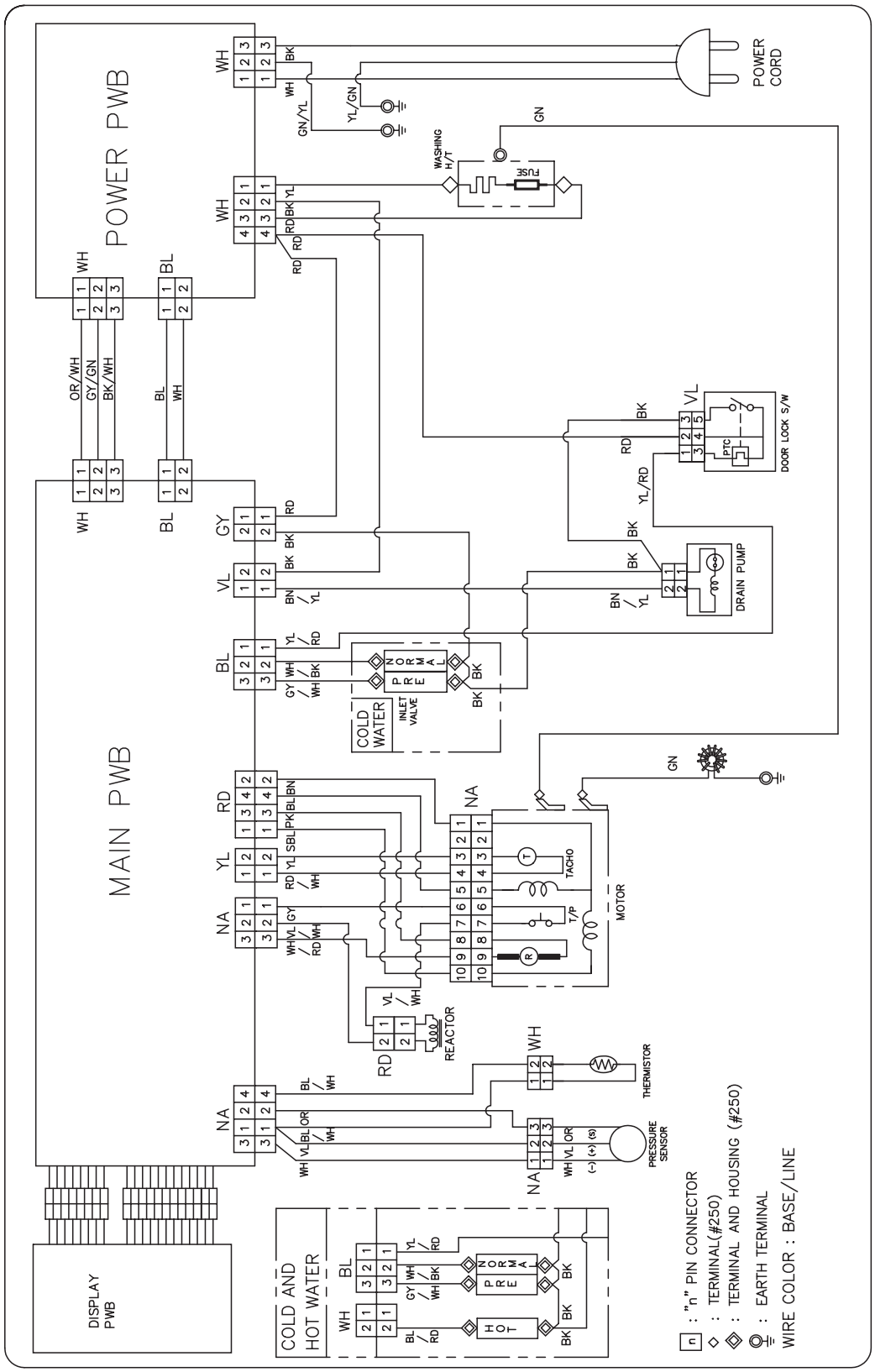
Delay

s the button when delayed washing is ed.
n the button is pressed, [3:00]is ayed, A maximum delay of [19:00]hours e set.
press advances time delay by the hour.
Power]button to cancel [Time Delay].

Eco/Rapid

ƒUIf you push the Eco/Rapid button in White program, Eco function is selected. Eco function gives you almost the same washing effect as that in 95¡ÆC with less energy consumption
ƒUIf you push the Eco/Rapid button in Coloreds or Synthetic program, Rapid function is selected. Rapid function reduces the whole time including the washing and rinsing time about by half an hour.

6. WIRING DIAGRAM



7. TROUBLE SHOOTING

7-1.BEFORE SVC CHECKING

¡ ÆBe careful of electric shock while trouble shooting.

¡ ÆDisconnect power plug from the outlet before service.

7-2.TEST MODE.

¡ ÆIf you press¡ aPower¡ bbutton with both¡ aRinse¡ bband¡ aSpin¡ bbuttons pressed the machine can be gotten into the test mode.

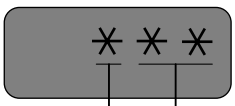
¡ ÆTo check if functions operate well, press¡ aStart/Pause¡ bbutton in test mode as follows.

NOTE : Even if you press the button to check inlet valve, inlet valve does not operate until the drum comes to a complete stop from spinning.

Times of press	Checking Point	Display Status
None	All lamps turn on	18:88
1 time	Counterclockwise spin	3~6 (Drum rpm ¡ 10)
2 times	Low speed Spin	55~65 (Drum rpm ¡ 10)
3 times	High speed Spin	95~105 (Drum rpm ¡ 10)
4 times	Inlet valve for pre-wash operation	Water level frequency(25~65)
5 times	Inlet valve for main-wash operation	Water level frequency(25~65)
6 times	Inlet valve for main-wash operation	Water level frequency(25~65)
7 times	Clockwise spin	3~6 (Drum rpm ¡ 10)
8 times	The Heater is in operation for 3 sec.	Water Temperature
9 times	Draining pump operation	Water level frequency
10 times	Auto off operation	

7-3.HOW TO KNOW THE WATER LEVEL FREQUENCY

ƒRPress the£ Wash£ and£ Rinse£ buttons simultaneously.



The last two digits means water level frequency(10^{-1} §)

If water is added in operation, number '6' will appear.

ex) 641 : Water level frequency = 241 ¡ ¿10^{-1} § (f2 ¡ ifi ommitted)

Water is added.

7-4.ERROR DISPLAY.

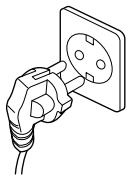
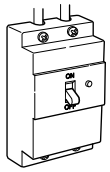
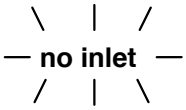
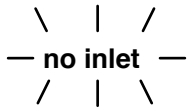
ƒ U If you press the ¡ a Start/Pause ¡ b utton in error condition, any error except '**PE**' will disappear and the machine will change into pause status.

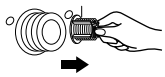
ƒ U In case of ¡ G **PE** ¡ H ¡ G **tE** ¡ H ¡ G **dE** ¡ H if the error is not resolved within 20 sec., and in case of other errors, if the error is not resolved within 4 min., power will be turned off automatically and the error only will be blinked. But in case of ¡ G **FE** ¡ , H power will not be turned off.

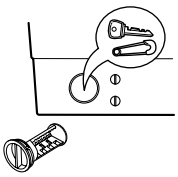
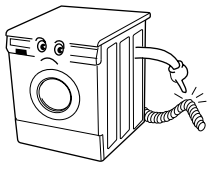
	ERROR	SYMPTOM		CAUSE
		WD-1050/1250	WD-8050/8052/1052	
1	WATER INLET ERROR	— no inlet —		§ Water has not reached to the pre-set level within 4 min. since inlet val ve operated or water has not reached to the normal level within 25 min.
2	IMBALANCE ERROR	— imbalance —		§ The appliance is tilted. § Laundry is gatherd to one side. § Non distributable things are put into the drum.
3	DRAIN ERROR	— no drain —		§ Water has not drained enough within 5 min.
4	OVER FLOW ERROR	FE	Pre ☼ Main ☼	§ Water is automatically being pumped out because too much water is in the tub.
5	SENSOR PRESSURE S/W ERROR	PE	Super Normal Hold	§ The sensor pressure switch is out of order.
6	DOOR OPEN ERROR	dE	Door ⊘ Lock	§ The ¡ a Start/Pause ¡ b button is pressed with the door open. § The door switch is out of order.
7	THERMISTOR ERROR	tE	95° 60° 40° Cold	§ The thermistor is out of order.

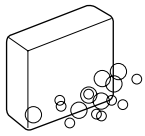
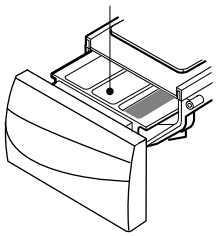
8. ERROR DIAGNOSIS AND CHEK LIST

8-1.DIAGNOSIS AND ANSWER FOR ABNORMAL OPERATION

<table>
<tr><th>SYMPTOM</th><th>GUIDE FOR SERVICE CALL</th></tr>
<tr><td>NO POWER</td><td>Is the power plug connected firmly to AC220-240V outlet?
YES
Power failure? or Breaker opened?
NO
Visit to check
 
  </td></tr>
<tr><td>Water inlet trouble
  </td><td>Is "no inlet" displayed?
YES
Is the tap opened?
YES
Is the tap frozen?
NO
Is the water supply shut-off?
NO
Is filter in the inlet valve clogged with foreign material?
YES
Clean the filter of inlet valve
NO
Visit to check
 

  </td></tr>
</table>

SYMPTOM	GUIDE FOR SERVICE CALL
¥ DOOR OPEN ERROR Refer to 7-4 ERROR DISPLAY	Did you press the ¡ÆStart/Pause¡Æ button when the door is open? **YES** → Close the door **NO** Visit to check **< Check if the door switch is O.K >**
¥ Drain Trouble \ | / — **no drain** — / | \	Is "no drain" displayed? **YES** Is the debris filter clogged with foreign material such as pin, coin and etc.? **YES** → Clean up the filter. **NO** Is the drain hose frozen with water, kinked or crushed? **NO** Visit to check \ | / — **no drain** — / |  

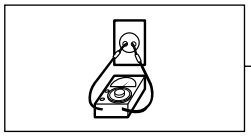
SYMPTOM	GUIDE FOR SERVICE CALL
¥ Suds overflow from the appliance. (In this condition, wash and spin do not operate normally)	Is Low-sudsing detergent for the durm washing machine used? **YES** Is the proper amount of detergent used as recommended? **YES** Recommend to reduce the using amount of detergent.  LOW LATHERING DETERGENT ƒT This appliance has the automatic suds sensing function which operates under much suds condition for good rinse and preventing overflow. ƒT When much suds are sensed, suds removing fuction such as drain, water input and pause will operate without rotating the drum.
¥ No effect of softener	Is softener put in the correct compartment of drawer? **YES** Is the drawer closed during wash? **YES** Is the softener cap clogged? **YES** Explain how to use softener **< Clean the compartment for softener >** Compartment for softener 
¥OVER FLOW ERROR ¥PRESSURE S/W ERROR ¥THERMISTOR ERROR Refer to 7-4. ERROR DISPLAY	Visit to check

8-2.FAULT DIAGNOSIS AND TROUBLE SHOOTING

CAUTION

1. Be careful of electric shock or disconnecting the parts while trouble shooting.
2. First of all, check the connection of each part terminal with wiring diagram.
3. Voltage between each terminal is AC 220-240V while applying an electric current (except secondary part of the transformer and sensors)

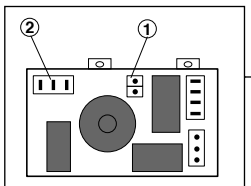
NO POWER



When measuring the voltage of the outlet, is the voltage AC 220-240V?

NO → Check the fuse?

YES

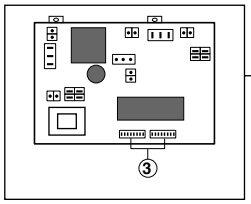


PWB ASSY (POWER)

When measuring the voltage of blue connector of the PWB assy (Power), is the voltage AC 220-240V?

NO → Replace PWB assy (Power)

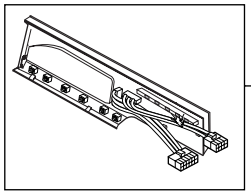
YES



Is ¤Øconnector disconnected or or is the contact bad or cut?

YES → Reconnect and repair connector.

NO



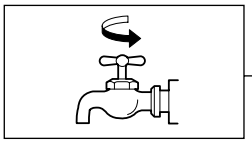
Is wire of the PWB assy(Display) disconnected?

NO → Replace PWB assy(Main)

YES

Replace PWB assy(Display)

NO WATER SUPPLY

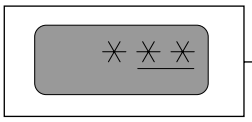


Is the water supply shut-off?

NO

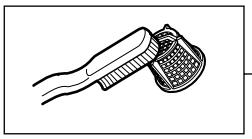
Is the tap opened? — **NO** → Open the tap.

YES



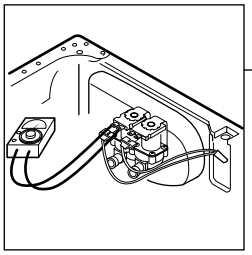
When you press both ¡ AWash ¡ Bbutton and ¡ ARinse ¡ B buttons simultaneously, is the water level frequency below 40? — **YES** → Check the chamber(Air) and the tube clogged with impurity.

NO



Is the inlet valve filter clogged with impurity? — **YES** → Clean the filter.

NO

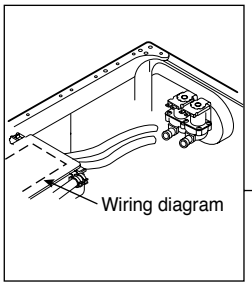


Is resistance of the inlet valve connector between 2 to 8 k§ ? — **NO** → Replace the inlet valve.

YES

Check the voltage between each terminal of inlet Valve is AV 220~240V.
(Refer to 7-2 TEST MODE) — **NO** → Replace PWB assy(Main)

DETERGENT DOES NOT FLOW IN

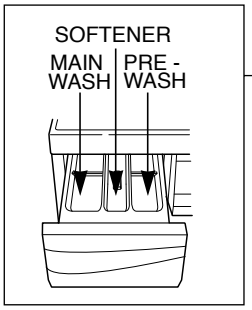


Is water supplied? — **NO** → Refer to solution ¡ ANO INLET ¡ B

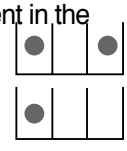
YES

Are replaceptacles correctly connected to the terminals of inlet valve? — **NO** → Check the wiring on the dispenser.

YES



Is detergent put in the correct compartment of the drawer? — **NO** → Put the detergent in the correct position



PRE+MAIN

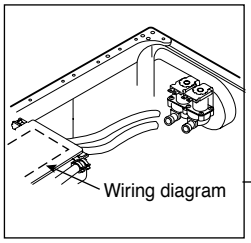
MAIN WASH

● : Detergent

YES

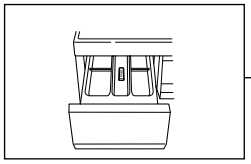
Is the detergent hardened? — **YES** → Clean the drawer.

SOFTENER DOES NOT FLOW IN

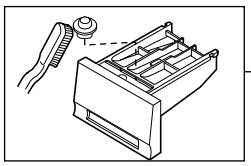


Is water supplied?
- NO → Refer to ¡ANO WATER SUPPLY¡B
- YES ↓

Are receptacles conectly connected to the terminals of inlet valve?
- NO → Check the wiring on the dispenser.
- YES ↓

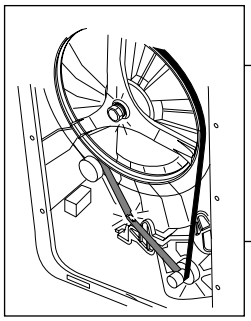


Is softener put in the correct compartment of drawer?
- NO → Put it in the correct compartment.
- YES ↓



Is the softner cap clogged?
- YES → Clean the cap and drawer.

ABNORMAL SOUND

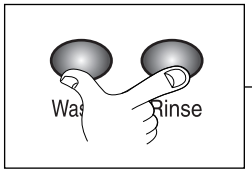


Is the pulley bolt loosened?
- YES → Fix the bolt tightly.
- NO ↓

Is the belt worn?
- YES → Replace the V-belt (4400FR3116A)
- NO ↓

Is there friction noise from the motor?
- YES → Replace the motor.

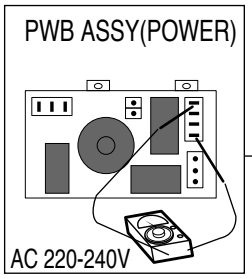
HEATING WITHOUT WATER



When pressing£ WASH£ and£ RINSE£ buttons at the same time after dranining, is the water level frequency 52 or more?
When pressing£ WASH£¨ RINSE£ buttons at the same time while wash, is the water level frequency between 20~40?

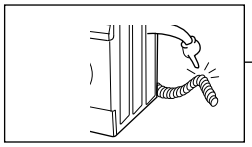
NO → Replace the sensor (pressure)

YES



Replace the PWB assy (POWER or MAIN)

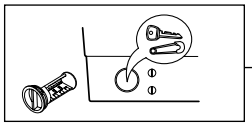
DRAIN MALFUNCTIONING



Is the drain hose kinked or frozen?

YES → Repair drain hose

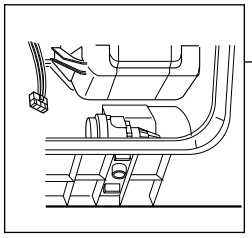
NO



Is the filter of drain pump clogged?

YES → Remove foreign material.

NO



Is the connector disconnected or is the contact bad?

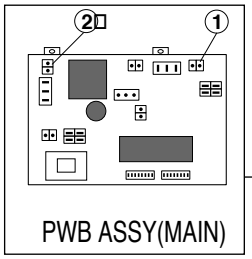
YES → Reconnect or repair the connector

NO

Is the coil of drain pump cut-off?
(resistance of coil is 90~160¥)

YES → Replace the pump assy

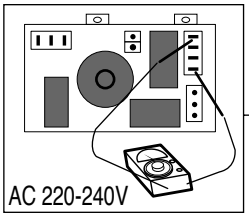
NO



When checking voltage between two receptacles as shown (¥L, ¥M) on spinning, is the voltage AC 220-240V ?

NO → Replace the PWB assy (Main)

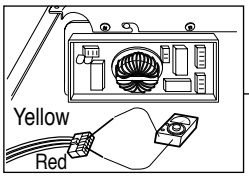
WASH HEATER TROUBLE



When checking the voltage between two receptacles of the PWB assy(Power) during washing.
Is the voltage AC 220-240V?

NO → Replace the PWB assy (Power)

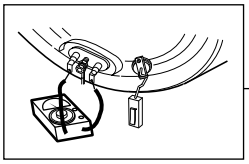
YES



After power off, is the resistance between yellow wire and red wire of connector 10 to 30¥ ?

YES → Normal

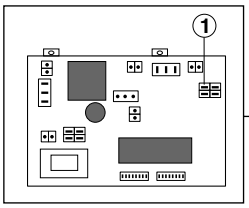
NO



After power off, is the resistance of heater 10 to 30¥ ?

NO → Replace the heater assy

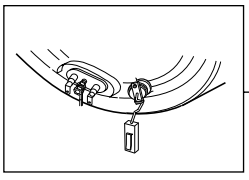
HEATING WATER CONTINUOUSLY ABOVE THE SELECTED WATER TEMPERATURE



Is the resistance between two receptacles with BL/WH wires parted from PWB assy 2.5k¥ to 180k¥ (105¡ ~0¡)?

NO → Replace the thermistor (6322FR2046B)

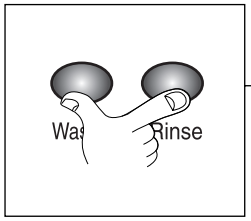
YES



When checking thermistor on the tub cover, is the thermistor gotten more than 2 mm out of the rubber?

YES → Get the thermistor back to the rubber.

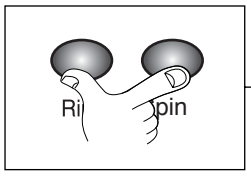
SPIN TROUBLE



Check the frequency of the water level 48 or more. The frequency can be checked by pressing the£ Wash£ and£ Rinse£ buttons at the same time.

NO → Check the sensor (Pressure) or hose (Sensor). If the problem is on the sensor or the hose, replace the sensor or the hose.

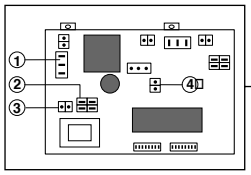
YES



Press£ Power£ button with both£ Rinse£ and£ Spin£ buttons pressed after power off. Press£ Start/Pause£ button 2 times. Does the drum rotate at low spin speed?

YES → Normal

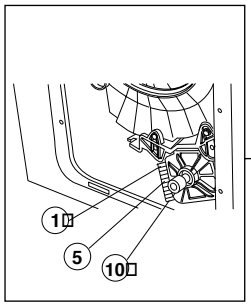
NO



Is it disconnected or badly contacted?
¡ aNatural:3pin(¤),Red:4pin(¤Ł),Blue:2pin(¤Ø),
Yellow:2pin(¤Œ) ¡ b

YES → Reconnect or repair it.

NO



Check the motor connector, is the resistance between the terminal in figure the same as below?

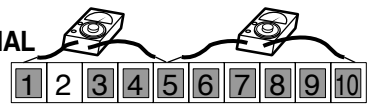
Resistance between terminals

¤ ~¤ º:0.5~1.0§

¤ º~¤ :1.5~2.5§

Be sure to unplug the machine before measuring.

MOTOR TERMINAL



NO → Replace the motor assy. (4681FR1194A)

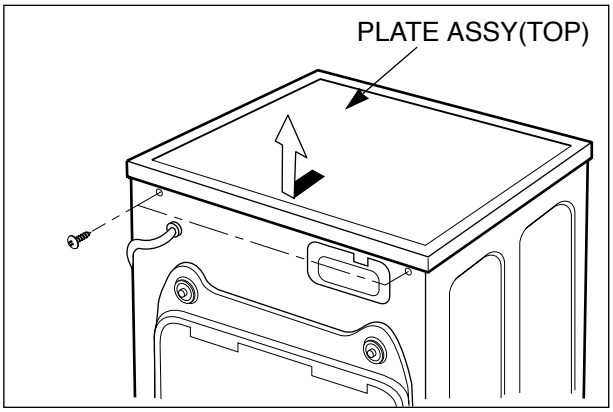
YES

Replace the PWB assy (Main)

9. DISASSEMBLY INSTRUCTIONS

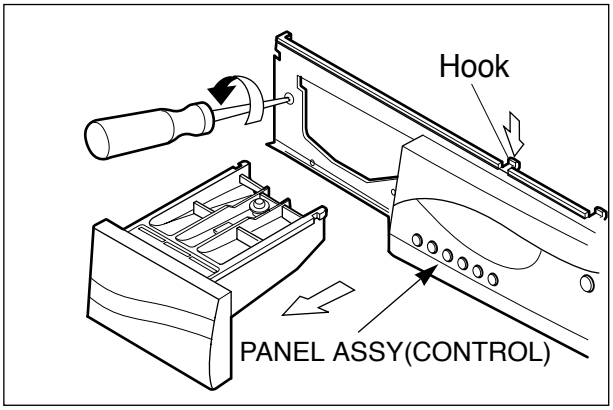
ƒRBe sure to unplug the machine out of the outlet before disassembling and repairing the parts.

CONTROL PANEL



¤ Unscrew 2 screws on the back of the top plate.

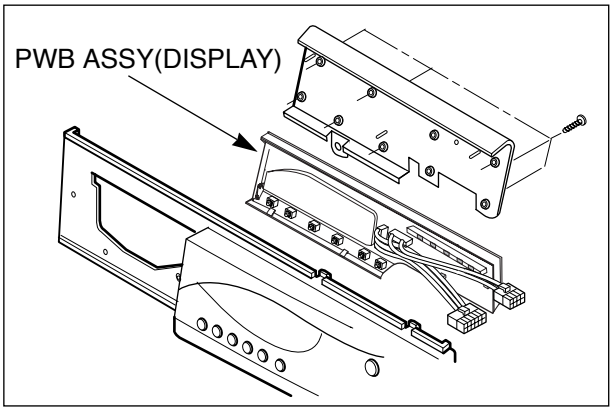
¤Ł Pull the top plate backward and upward as shown.



¤ Disconnect the PWB assy (Display) connector.

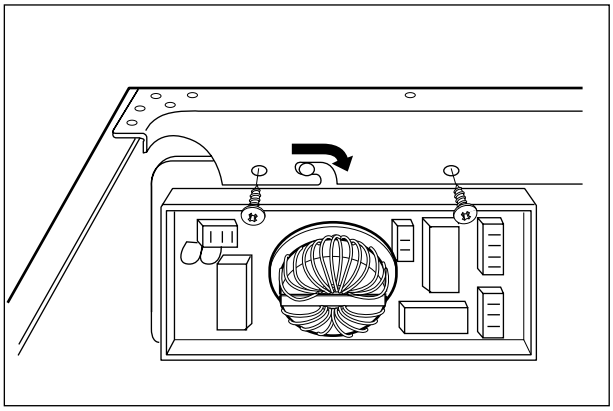
¤Ł Pull out the drawer and unscrew 3 screws.

¤Ø Push 2 upper hooks down and pull the control panel.



¤ Disconnect the PWB assy (Display) from the control panel by unscrewing 9 screws.

PWB ASSY(POWER)

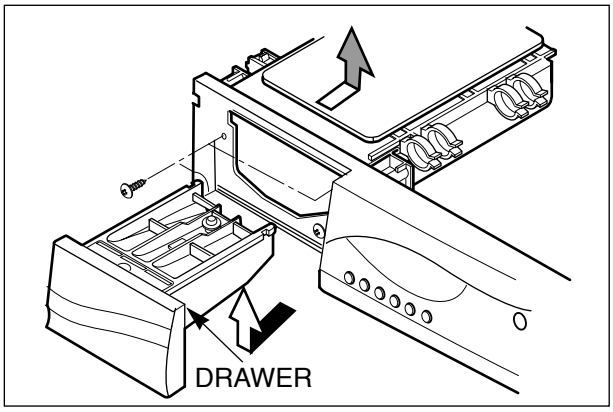


¤ Disassemble the top plate assy.

¤Ł Unscrew 2 screws.

¤Ø Disconnect connector from the wiring.

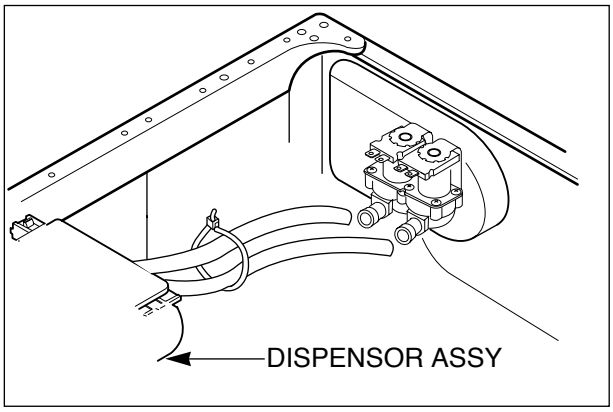
DISPENSER ASSY



¤ Disassemble the top plate assy.

¤Ł Pull out the drawer slightly upward.

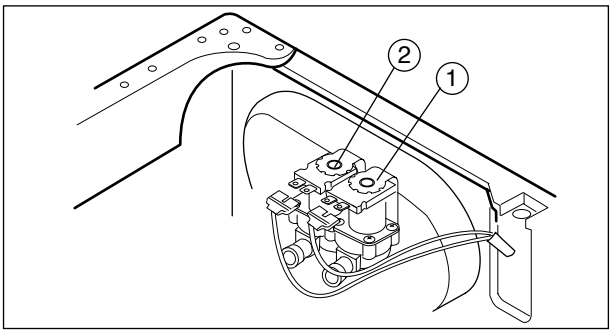
¤Ø Unscrew 2 screws.



¤ Disassemble hose clamps and hoses

¤Ł Disassemble ventilation bellows and water inlet bellows from tub.

INLET VALVE



¤ Disconnect the wiring receptacle.

¤Ł Unscrew 2 screws from the back.

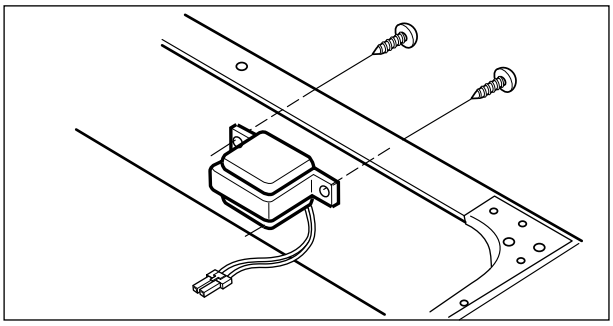
¡ When reconnecting the connector

VALVE#1(MAIN)	White/Black - Black
VALVE#2(PRE)	Gray/White - Black

VALVE#3(HOT)	Blue/Red - Black

(Option)

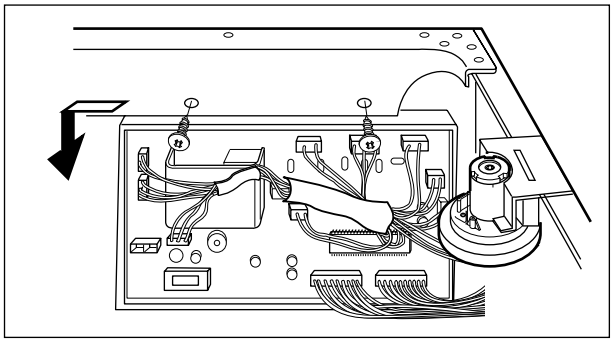
REACTOR



¤ Unscrew 2 screws

¤Ł Disconnect the wiring connector from the PWB assy(Msin)

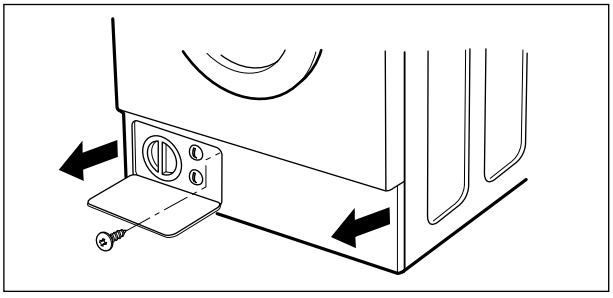
PWB ASSY(MAIN)



¤ Unscrew 2 screws

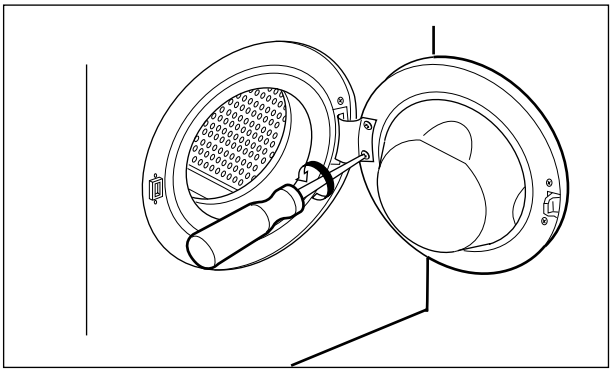
¤Ł Pull the PWB assy(Main) as shown.

LOWER COVER



¡Æ Open the lower cover plate by using coin and pull out the lower cover in the arrow direction after a screw is unscrewed.

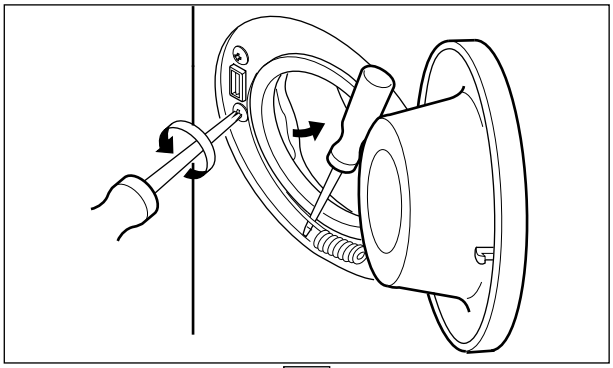
DOOR



¤ Open the door completely.

¤Ł Remove the two screws from the hinge.

GASKET ASSY

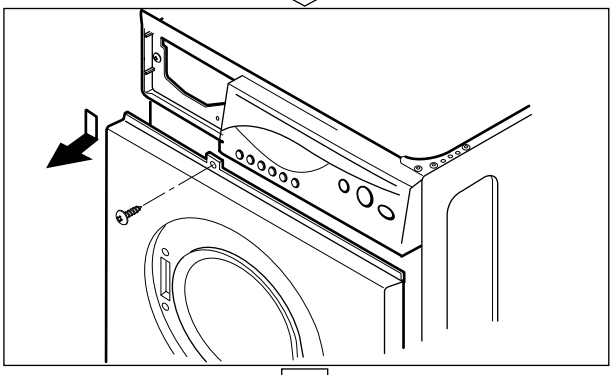


¤ Take apart the cabinet gasket clamp.

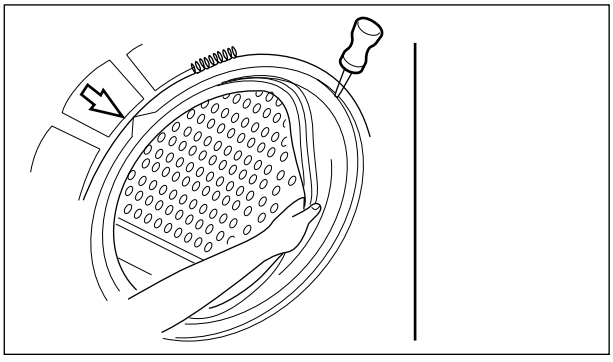
¤Ł Unscrew 2 screws from the cabinet cover.

¤Ø Open the lower cover cap and unscrew 1 screw inside

¤Œ Take apart the lower cover



¤ Unscrew all the screws on the upper and lower sides of the cabinet cover.

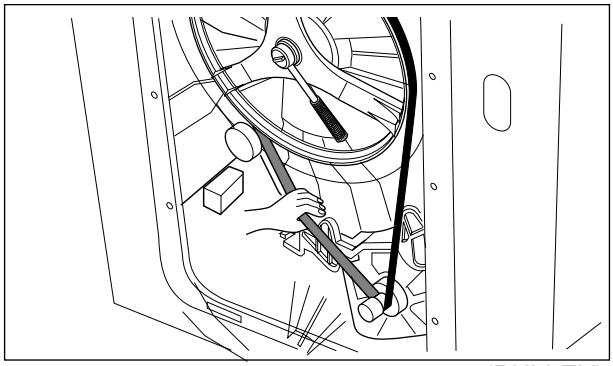


¤ Take apart the tub gasket clamp

¤Ł Make sure that the drain hole of the gasket is put beneath when reassembling the gasket.

¡ Refer to the arrow mark on the tub cover.

PULLEY, MOTOR, DAMPER

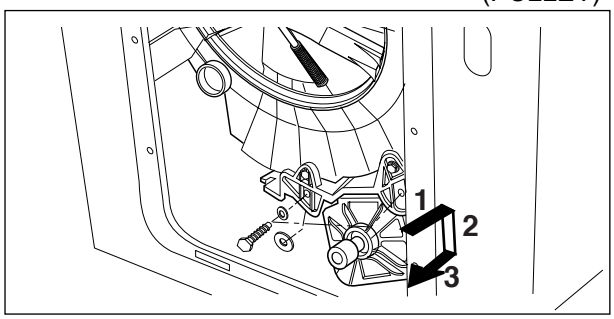


(PULLEY)

¤ Remove the back cover.

¤Ł Take off the belt turning the pulley.

¤Ø Unscrew the bolt to pull out the pulley.

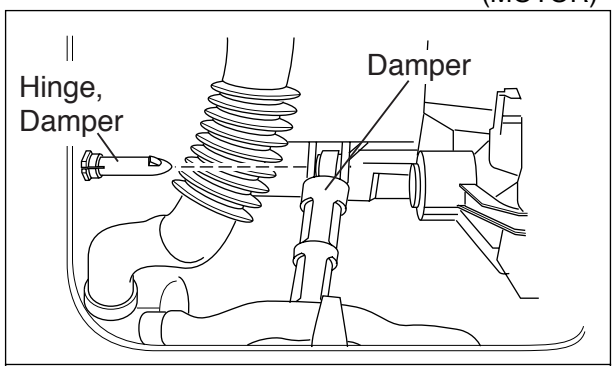


(MOTOR)

¤ Unscrew 2 screws from the bracket.

¤Ł Push the motor in the arrow direction for disassembling.

¤Ø When reassembling the motor, make sure that motor mounting rubbers are not taken off from the bracket.

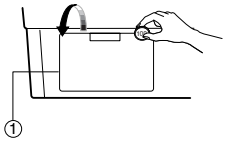


(DAMPER)

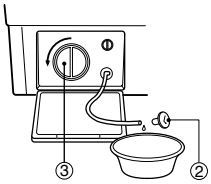
¤ Pull out the hinge pressing its snap.

¤Ł Do not use the pulled out hinge again..it may be taken off during operation.

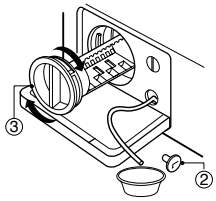
§ Clean the drain pump filter



Open the lower cover cap (¥L) by using coin.Turn the drain plug (¥M) to pull out the hose.

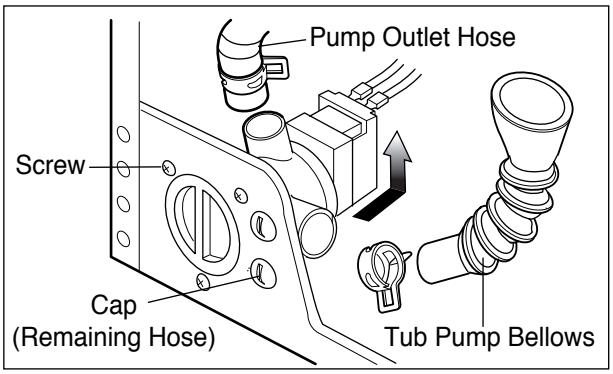


Unplug the drain plug (¥M) , then the water flows out,
At this time use a vessel to prevent water flowing on the floor. If the water does not flow any more,turn the pump filter (¥N) open to the left.
Take out any foreign material



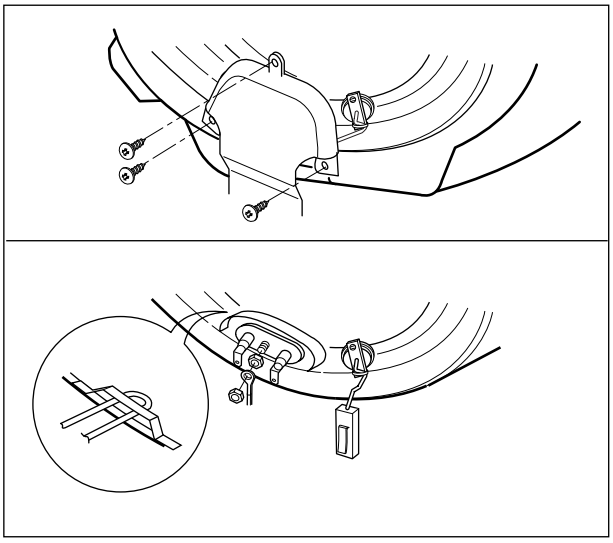
from the pump filter (¥N). After cleaning, turn the pump filter(¥N) clockwise and insert the drain plug (¥M)to the original place. close the lower cover cap.

PUMP



¤ Remove pump outlet hose.
¤Ł Remove tub pump bellows.
¤Ø Remove cap(Remaining Hose.)
¤Œ Disconnect the wiring.
¤º Unscrew 3 screws
¤ Remove the pump.

HEATER

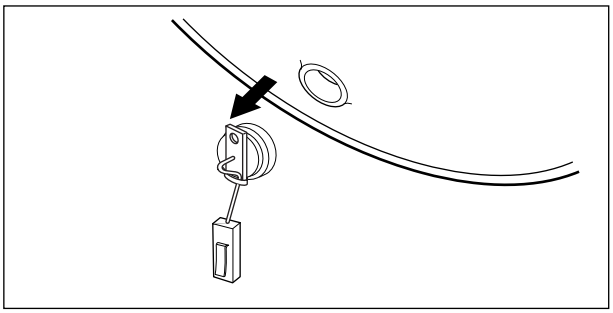


¤ Unscrew 3 screws fixing the heater protecting cover.
¤Ł Loosen the M6 heater nut to pull out the heater.

CAUTION

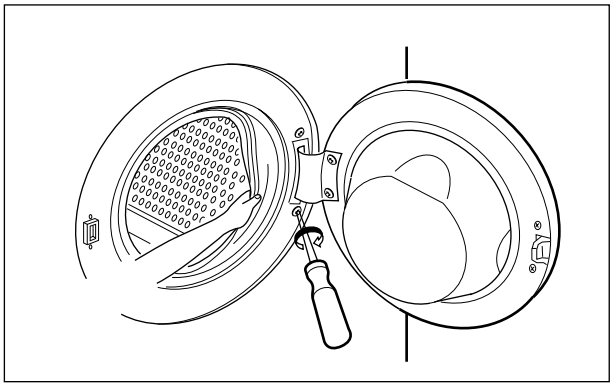
When mounting the heater, be sure to insert the heater into the heater clip on the bottom of the tub.

THERMISTOR



¤ Pull it out by holding the thermistor bracket.
ƒT If it is pulled by the wire, it may be broken.
¤Ł When mounting the thermistor again, make sure that it is got back tight to the rubber.

DOOR HINGE ASSY



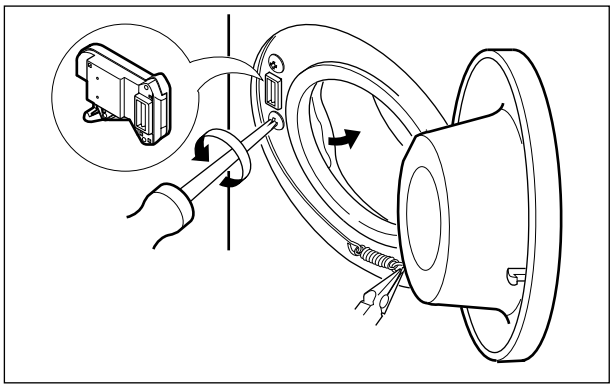
¤ Disassemble the door from the door hinge.

¤Ł Take apart the cabinet cover clamp and release the gasket.

¤Ø Unscrew 2 screws on the door hinge.

¤Œ Push the door hinge arm to the inside of the cabinet cover for disassembling.

SWITCH ASSY, DOOR LOCK

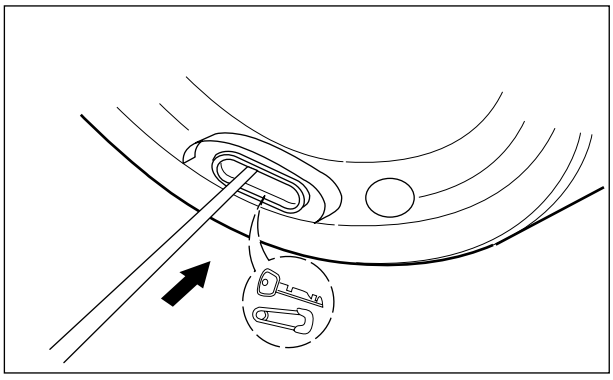


¤ Take apart the cabinet cover clamp and release the gasket.

¤Ł Unscrew 2 screws holding the Door Lock.

¤Ø Disconnect the door lock from the wiring connector.

WHEN FOREIGN MATERIAL IS STUCK BETWEEN DRUM AND TUB

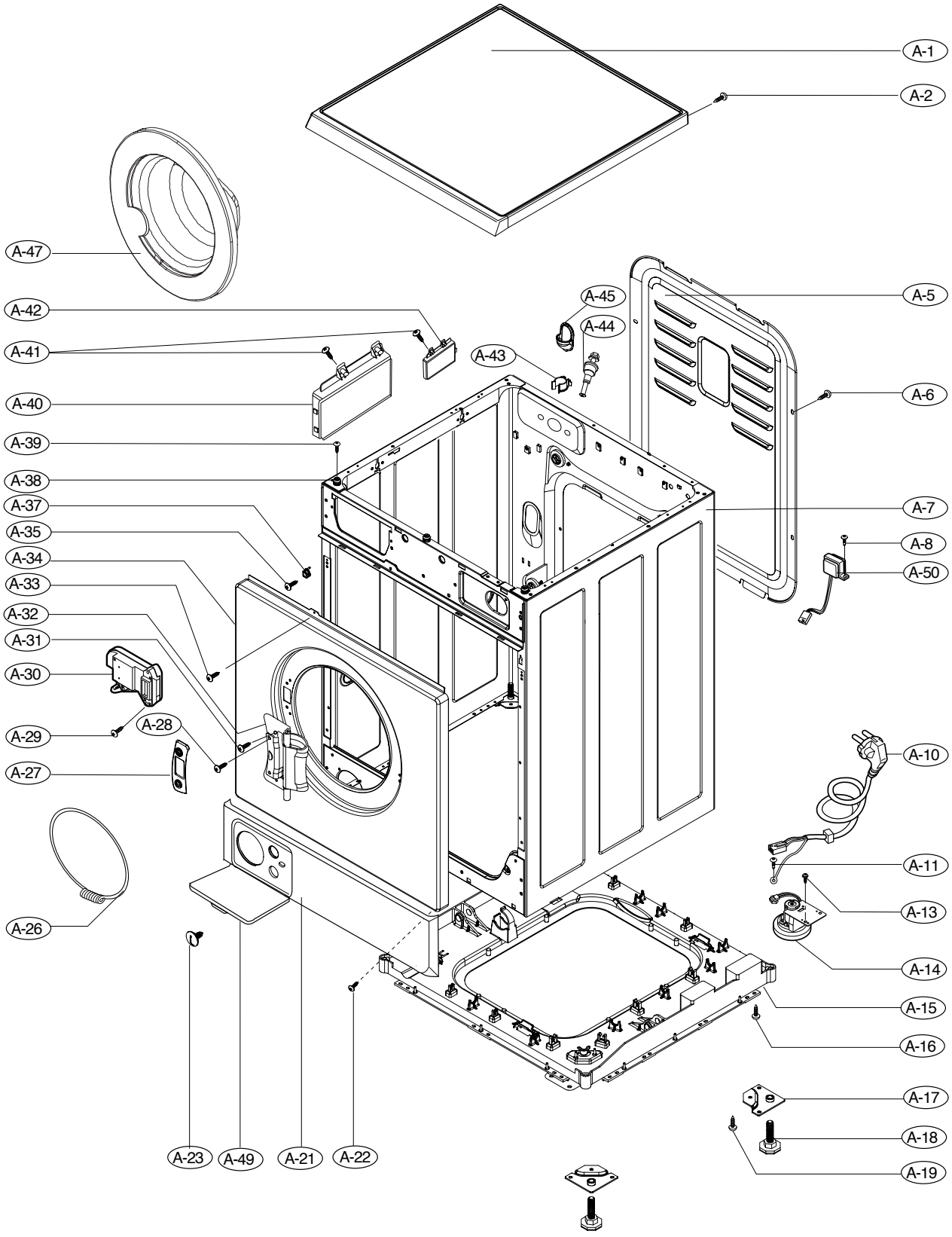


¤ Remove the heater.

¤Ł Remove the foreign material (wire, coin and others) by inserting a long bar through the hole.

10. EXPLODED VIEW AND PART LIST

10-1.THE PART LIST OF CABINET ASSY

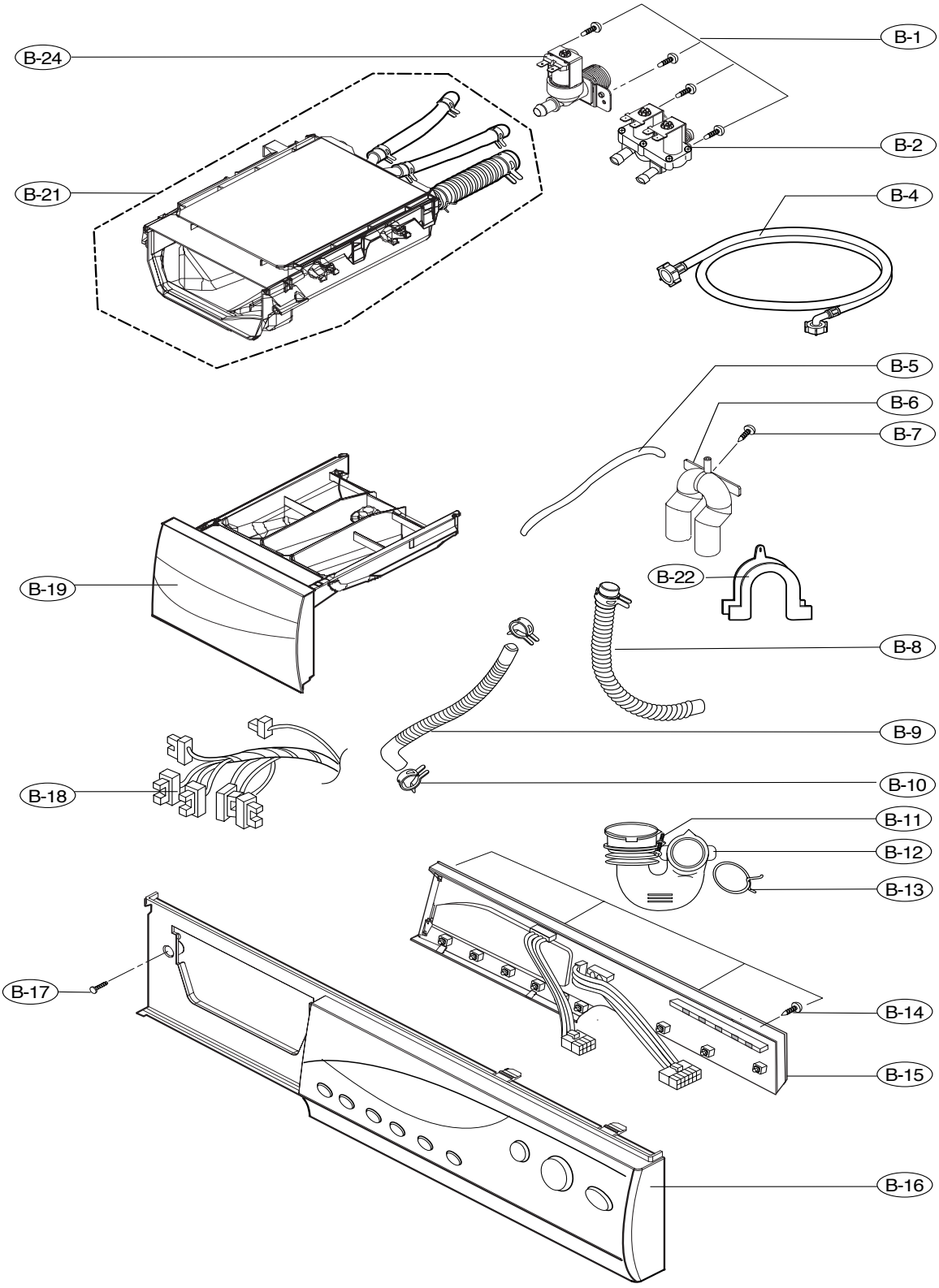


¡ÆTHE PART LIST OF CABINET ASSY

L/No.	PART NAME	PART NO.	SVC CORD	Q¡TTY	SPEC
A-1	PLATE ASSY(TOP)	3828ER1001A	R	1	
A-2	SCREW, TAPPING£ TRUSS HEAD £	1TTL0403018			
A-5	BACK COVER	3808FR1202A		1	
A-6	SCREW, TAPPING£ TRUSS HEAD £	1TTG0402618		4	
A-7	CABINET ASSY	3091FR0045A		1	
A-8	SCREW, TAP TITE(S£ BINDING HEAD £	1SBF0402418			
A-10	POWER CORD ASSY	6411FR1169B		1	C-4-2
	*See Appendix(type of power cord)	6411FR1169D		1	S-2-1
		6411FR1169E		1	B-5
		6411FR1169F		1	B-3
		6411FR1169K		1	B-3(BSI)
		6411FR1169L	R	1	B-3(SISIR)
		6411FR1169N		1	C-4-2
		6411FR1169P		1	S-2-3
		6411FR1169Q		1	S-2-1
A-11	SCREW	4000W4A003A		1	
A-13	SCREW, TAP TITE(S£ BINDING HEAD £	1SBF0402618		1	
A-14	SENSOR PRESSURE	6600FR1203F	R	1	
A-15	BASE	3040FR0049A		1	
A-16	SCREW, TAPPING£ TRUSS HEAD £	1TTG0403018		24	
A-17	BRACKET, BASE	4810FR4136A		4	
A-18	FEET ASSY	5413FR4154A	R	4	
A-21	COVER, LOWER	3550FR1166A	R	1	
A-22	SCREW, TAPPING£ TRUSS HEAD £	1TTG0402618		3	
A-23	CAP(REMAINING HOSE)	5006FR3146A		1	
A-26	CLAMP ASSY, CABINET GASKET	2W20017A		1	
A-27	GUIDE	4974ER4001A		1	
A-28	SCREW	4000FD4191A		2	
A-29	SCREW, TAPPING6 TRUSS HEAD £	1TTL0403032		2	

L/No.	PART NAME		PART NO.	SVC CORD	Q¡TIY	SPEC
A-30	SWITCH ASSY, DOOR LOCK		6601ER1001A	R	1	220-240VAC
A-31	SCREW		4000FD4191A		2	
A-32	HINGE ASSY		4775FR2114A		1	
A-33	SCREW, TAPPING(6 TRUSS HEAD £		1TTL0403032		1	
A-34	COVER, CABINET		3550FR1213A		1	
A-35	SCREW, TAP TITE(C(PAN HEAD £		1TPL0402618		2	
A-37	HOLDER		4930FR4157A		2	
A-38	HOLDER		4930ER4001A		3	
A-39	SCREW, TAP TITE(S(PAN HEAD£		1SCBF040327		3	
A-40	PWB ASSY(MAIN)	WD-1050F/1250F/1052X/8050F&8052X	6871FC1006A/C/E/G	R	1	220-240VAC
		WD-1050FH/1250FH/1052XH/8050FH&8052XH	6871FC1006B/D/F/H		1	220-240VAC
A-41	SCREW, TAPPING(6 TRUSS HEAD £		1TTL0403018		4	
A-42	PWB ASSY (POWER)		6871FC2262C	R	1	220-240VAC
A-43	HOLDER		4930FR3151A		1	
A-44	BOLT ASSY, TRANSIT		4011FR3159A		4	
A-45	BUSHING		4830FR3107A		1	
A-47	DOOR ASSY		3581ER1001A		1	
A-49	LOWER COVER CAP		5006FR3179A	R	1	
A-50	REACTOR		5874FA2381B	R	1	SEMKO

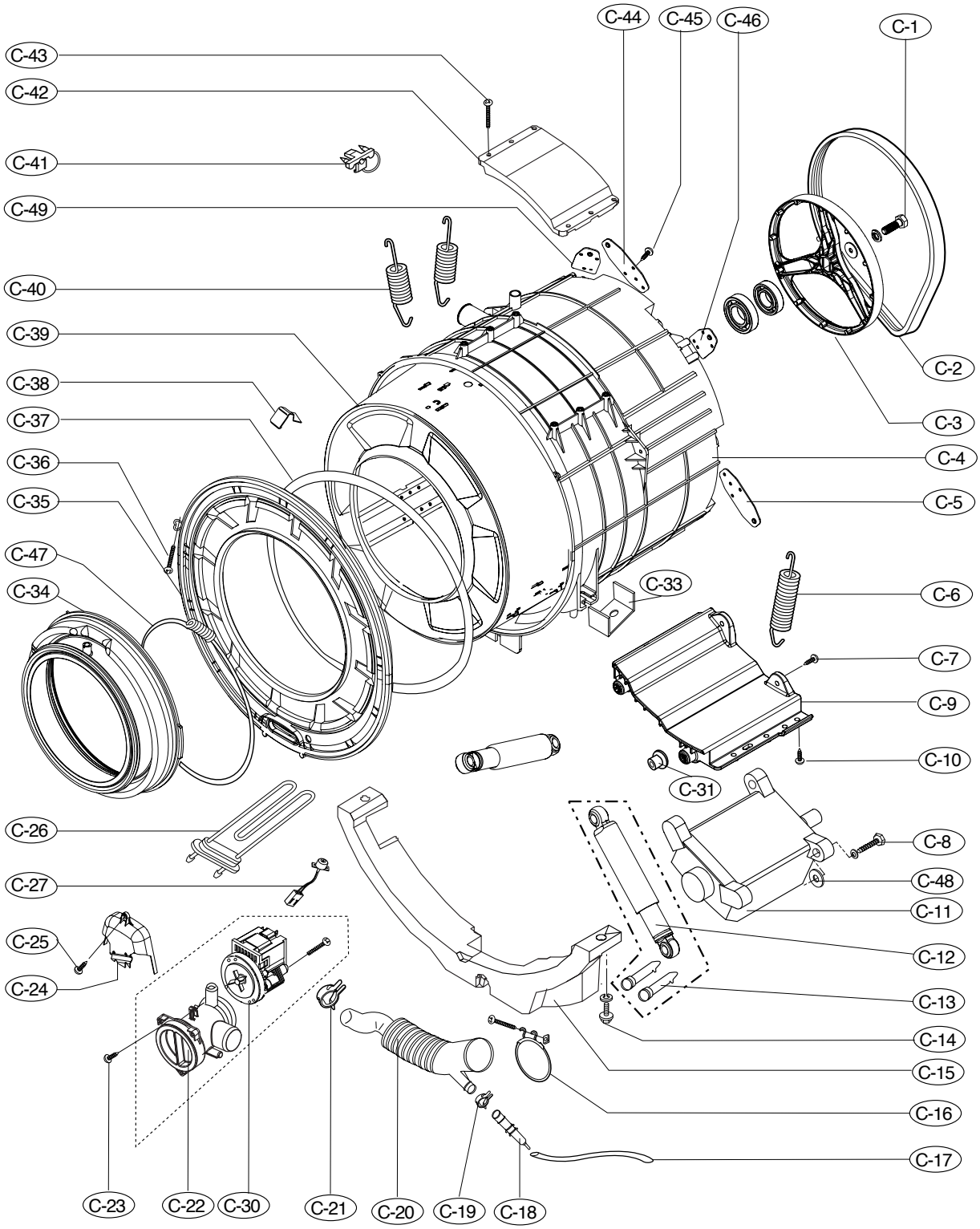
10-2 THE EXPLODED VIEW OF CONTROL PANEL & DISPENSER ASSY



¡ÆTHE PARTS LIST OF CONTROL PANEL & DISPENSER ASSY

L/No.	PART NAME		PART NO.	SVC CORD	Q¡TY	SPEC
B-1	SCREW, TAP TITE(S)£ PAN HEAD £		1SCPF040268		2	
B-2	VALVE		5220FR1251A	R	1	220-240VAC
B-4	HOSE ASSY, INLET		5214FA1146	R	1	
			5215FD3715	R	1	
			3W40102	R	1	
B-5	HOSE		5214FR4125B		1	
B-6	CONNECTOR (MECH), DRAIN HOSE		4932FR3156A		1	
B-7	SCREW, TAP TITE(B)£ FLAT HEAD £		1SBF0402618		1	
B-8	HOSE ASSY, DRAIN		5214FR3018B	R	1	
B-9	HOSE, PUMP		5214FR3188A	R	1	
B-10	CLAMP		4861FR3068C		2	
B-11	CLAMP		4860FR3092D		1	
B-12	BELLOWS		4738FR2065A	R	1	
B-13	RING, SNAP		3W500120		1	
B-14	SCREW		4W51132A		9	
B-15	PWB ASSY(DISPLAY)	WD-1050F(H)/1250F(H)	6871EC2002A/B	R	1	
		WD-1052X(H)/8050F(H)&8052X(H)	6871EC2002C/D	R	1	
B-16	PANEL ASSY, CONTROL		3721ER1003	R		
B-17	SCREW, TAPPING£ TRUSS HEAD £		1TTL0403332		1	
B-18	LEAD WIRE ASSY		6877ER1001C		1	
B-19	PANEL ASSY, DRAWER		3721ER1002	R	1	
B-21	DISPENSER ASSY	WD-8050F/8052X	4925FR1137C	R	1	
		WD-8050FH/8052XH	4925FR1137A		1	
		WD-1050F/1052X/1250F	4925FR1137F		1	
		WD-1050FH/1052XH/1250FH	4925FR1137G		1	
B-22	DRAIN HOSE HANGER		3W50712A		1	
B-24	VALVE	WD-ƒSSSSS H Series	5220FR1280A	R	1	220-240VAC

10-3 THE EXPLODED VIEW OF DRUM & TUB ASSY

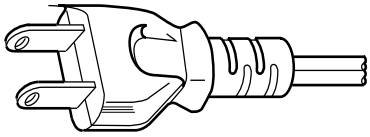
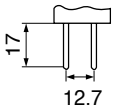
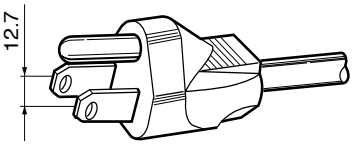
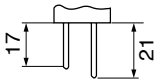
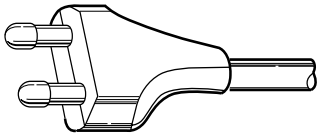
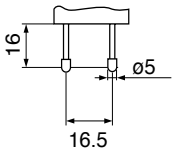
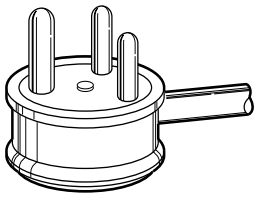
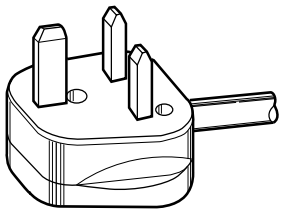
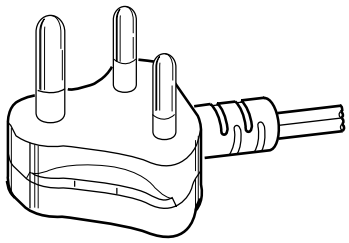
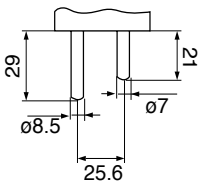
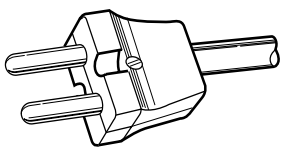
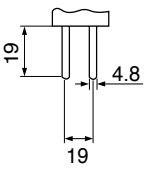


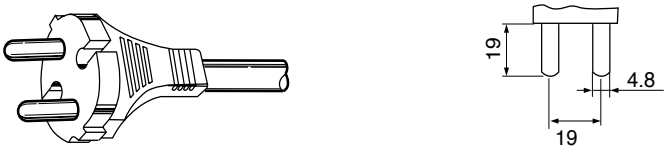
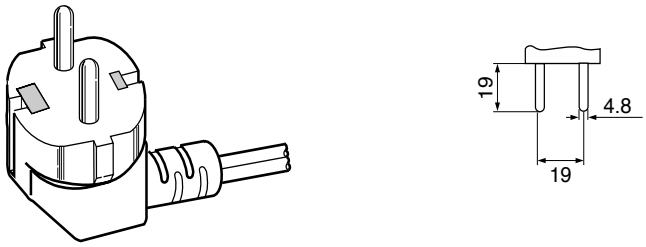
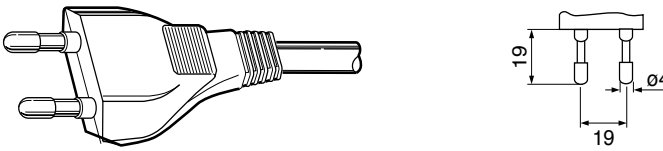
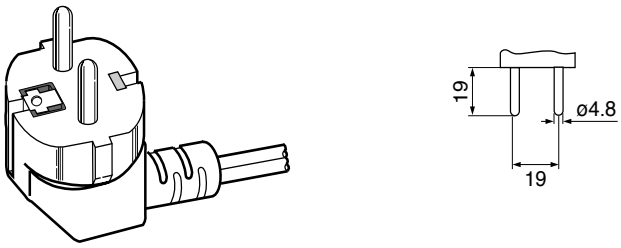
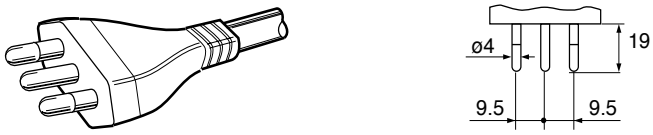
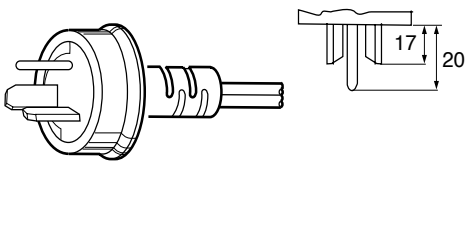
¡ÆTHE PART LIST OF DRUM & TUB ASSY

L/No.	PART NAME	PART NO.	SVC CORD	Q¡Ti'Y	SPEC
C-1	BOLT ASSY	4011FR3173A		1	
C-2	BELT, POLY-V	4400FR3116A	R	1	
C-3	PULLEY	4560FR1149A	R	1	
C-4	TUB ASSY	3045FR0031C		1	
C-5	BRACKET	4810FR4167A		1	
C-6	SPRING	4970FR2084B	R	1	
C-7	SCREW	1SZZFA4362A		2	
C-8	SCREW	4040FR4051F		2	
C-9	BRACKET, MOTOR	4810FR1222B	R	1	
C-10	SCREW	1SZZFA4362A		4	
C-11	MOTOR ASSY	4681FR1194A	R	1	220-240VDC
C-12	DAMPER ASSY	4901FR2080A	R	2	
C-13	HINGE	4774FR3118A	R	4	
C-14	BOLT ASSY	4011FR3173B		3	
C-15	WEIGHT, BALANCE	4844FR1179A		1	
C-16	CLAMP	4860FR3092C		1	
C-17	HOSE(SENSOR)	5214FR4125A	R	1	
C-18	CHAMBER, AIR	3504FR3134A	R	1	
C-19	CLAMP, HOSE	4861FR3068C		1	
C-20	BELLOWS	4738FR1145A	R	1	
C-21	CLAMP, HOSE	4861FR3068E		1	
C-22	PUMP ASSY(DRAIN)	5859FR1225E	R	1	220-240VAC/50Hz
		5859FR1225F		1	220V/60Hz
C-23	SCREW, TAPPING(TURSS HEAD)	1TTL0403018		3	
C-24	PROTECTOR (MECH)	3740FR3043A		1	
C-25	SCREW, TAPPING(TURSS HEAD)	1TTL0403318		2	
C-26	HEATER ASSY	5301FR1158B	R	1	240VAC2000W
		5301FR1158C		1	220VAC2000W
		5301FR1158D		1	230VAC2000W

L/No.	PART NAME		PART NO.	SVC CORD	Q¡TY	SPEC
C-27	THERMISTOR		6322FR2046B	R	1	
C-30	PUMP MOTOR		4681EA2001A		1	220-240VAC 50Hz
			4681EA2001B		1	220VAC60Hz
C-31	RUBBER		5040FR4168A		4	
C-33	BRACKET		4810FR4116A		3	
C-34	GASKET ASSY	WD-1050/1052/1250 series	4987FR1165B	R	1	220-240VAC 50Hz
		WD-8050/8052 series	4986FR1230B	R	1	
C-35	COVER, TUB		3044FR0027A		1	
C-36	SCREW, TAPPING£ TURSS HEAD £		1TTL0403318		3	
C-37	SEAL		4036FR4123A		1	
C-38	CLAMP, TUB		4860FR4124A		11	
C-39	TUB, DRUM ASSY		3044FR0036C		1	
C-40	SPRING		4970FR2084A	R	2	
C-41	HOLDER(SPRING)		4930FR3040A	R	3	
C-42	WEIGHT, BALANCE		4844FR1223A		1	
C-43	SCREW		1SZZFA4362A		6	
C-44	BRACKET		4810FR4166A		1	
C-49	SCREW		1TTL0503518		12	
C-46	BRACKET		4810FR4126A		2	
C-47	TUB GASKET CLAMP ASSY		4861ER2001A	R	1	
C-48	NUT		1NZZFR4175A		2	
C-49	BRACKET (UPPER RIGHT)		4810FR4126B		2	

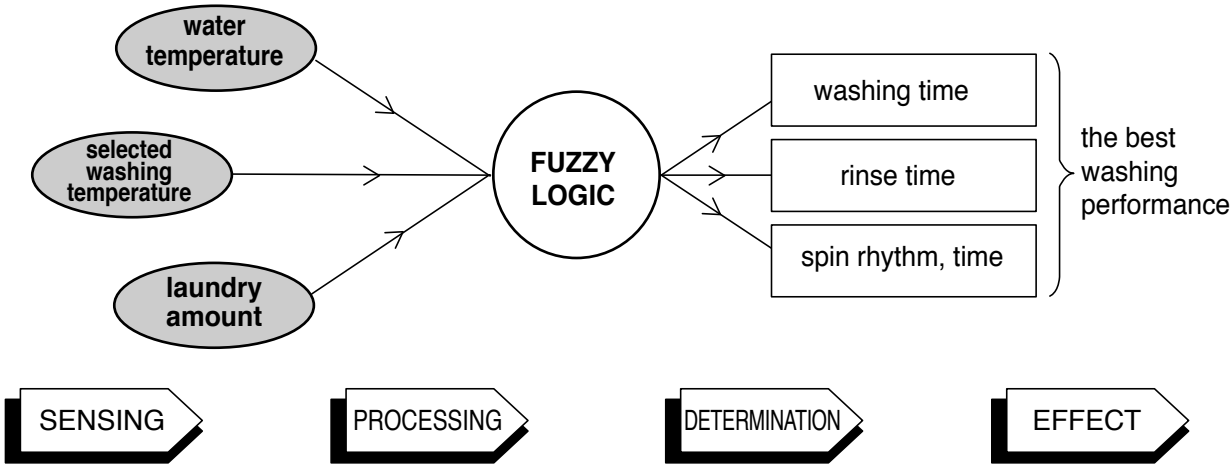
¡ÆAPPENDIX(The type of power cord)

TYPE	TYPE OF PLUG	POWER CORD P/No.
A-1	 	□ -
A-2	 	-
B-1	 	-
B-2		2A 2PIN 3.5Ø□EPIN 5Ø□ 5A 2PIN 5Ø□ EPIN 7Ø□ 15A 2PIN 7Ø□EPIN 8.6Ø□
B-3		6411FR1169F
B-5	 	6411FR1169E
C-1	 	-

TYPE	TYPE OF PLUG	POWER CORD P/No.
C-2-1		-
C-2-2		6411FD1096V
C-3-1		-
C-3-2		-
C-4-2		6411FR1169B 6411FR1169N
C-5		-
S-2-1		6411FR1169D 6411FR1169P 6411FR1169Q

2-2.DETERMINE WASHING TIME BY FUZZY LOGIC

To get the best washing performance optimal time is determined by sensing of water temperature, selected washing temperature and laundry amount.



2-3.WATER LEVEL CONTROL

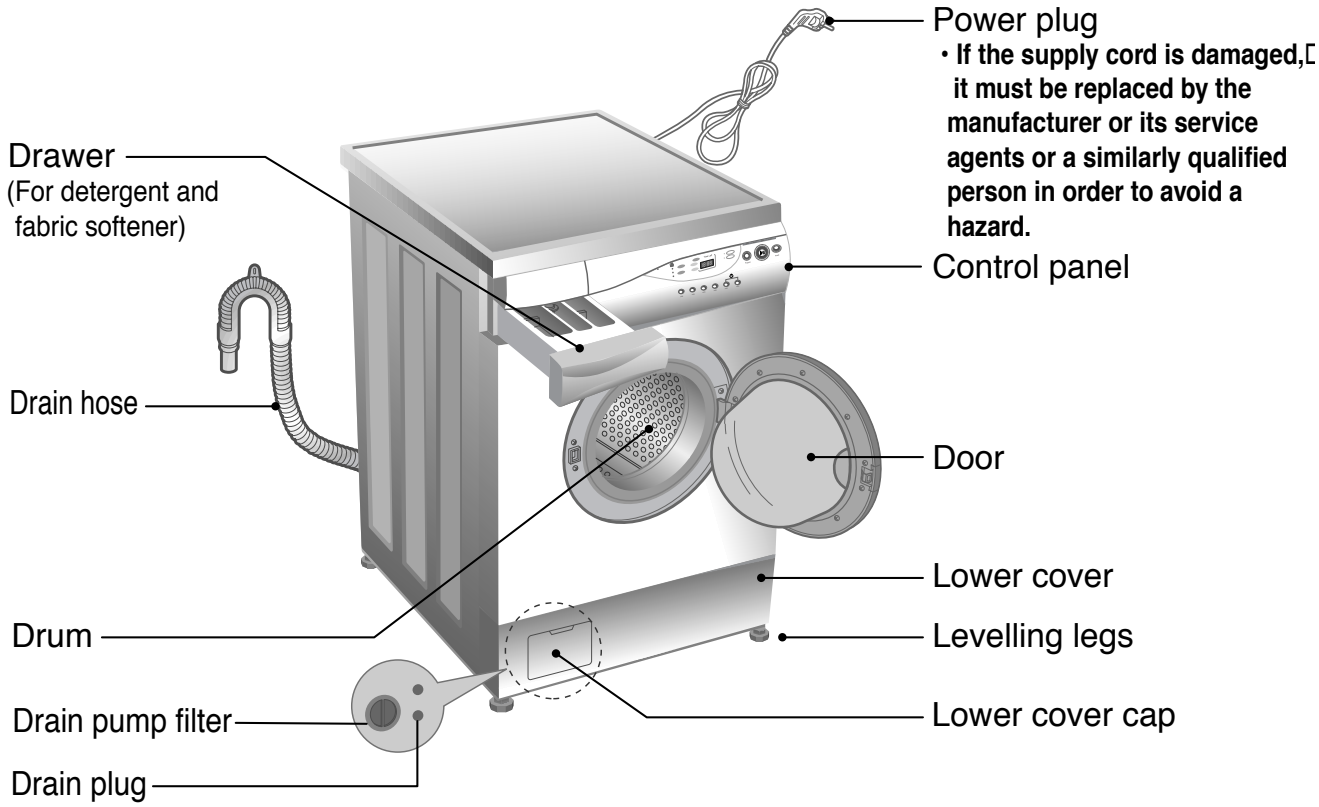
- ¡ This model adopts a pressure sensor which can sense the water level in the tub.
- ¡ When the water level reaches to the preset level water supply is stopped, then washing program proceeds.
- ¡ Spinning does not proceed until the water in the tub reduces to a certain level.

2-4.THE DOOR CAN NOT BE OPENED

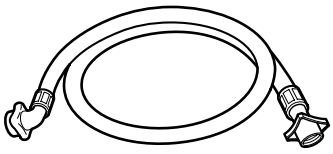
ƒU While program is operating.

ƒU While Door Lock light turns on.

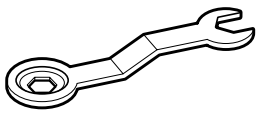
3. PARTS IDENTIFICATION



¡ÆACCESSORIES

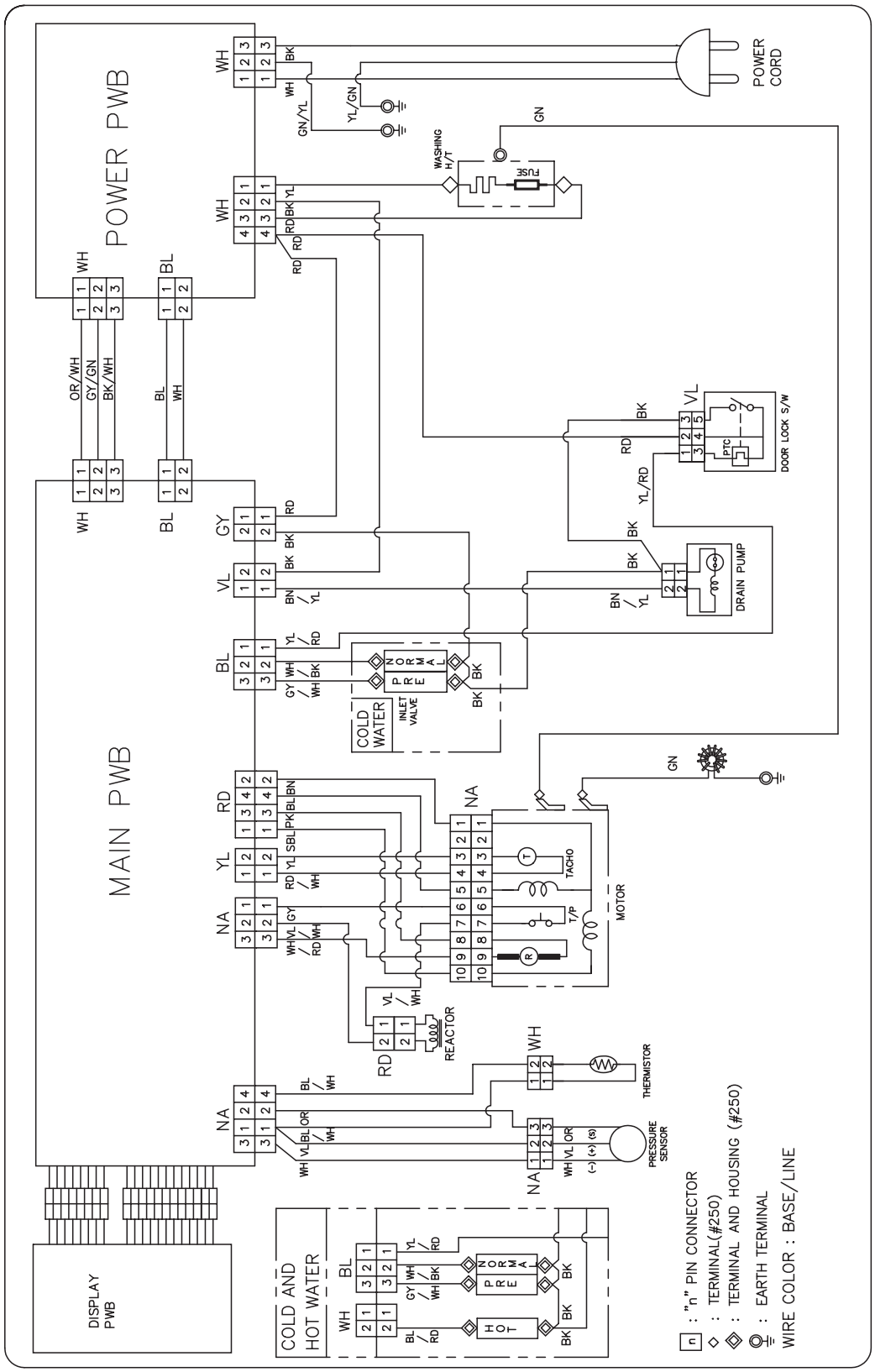


Inlet hose



Spanner

6. WIRING DIAGRAM



7. TROUBLE SHOOTING

7-1.BEFORE SVC CHECKING

¡ ÆBe careful of electric shock while trouble shooting.

¡ ÆDisconnect power plug from the outlet before service.

7-2.TEST MODE.

¡ ÆIf you press¡ aPower¡ bbutton with both¡ aRinse¡ bband¡ aSpin¡ bbuttons pressed the machine can be gotten into the test mode.

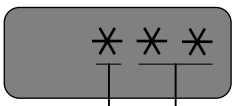
¡ ÆTo check if functions operate well, press¡ aStart/Pause¡ bbutton in test mode as follows.

NOTE : Even if you press the button to check inlet valve, inlet valve does not operate until the drum comes to a complete stop from spinning.

Times of press	Checking Point	Display Status
None	All lamps turn on	18:88
1 time	Counterclockwise spin	3~6 (Drum rpm ¡ 10)
2 times	Low speed Spin	55~65 (Drum rpm ¡ 10)
3 times	High speed Spin	95~105 (Drum rpm ¡ 10)
4 times	Inlet valve for pre-wash operation	Water level frequency(25~65)
5 times	Inlet valve for main-wash operation	Water level frequency(25~65)
6 times	Inlet valve for main-wash operation	Water level frequency(25~65)
7 times	Clockwise spin	3~6 (Drum rpm ¡ 10)
8 times	The Heater is in operation for 3 sec.	Water Temperature
9 times	Draining pump operation	Water level frequency
10 times	Auto off operation	

7-3.HOW TO KNOW THE WATER LEVEL FREQUENCY

ƒRPress the£ Wash£ and£ Rinse£ buttons simultaneously.



The last two digits means water level frequency(10^{-1} §)

If water is added in operation, number '6' will appear.

ex) 641 : Water level frequency = 241 ¡ ¿10^{-1} § (f2 ¡ ifi ommitted)

Water is added.

7-4.ERROR DISPLAY.

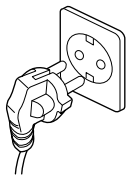
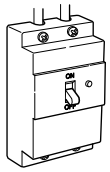
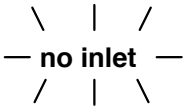
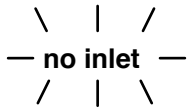
ƒ U If you press the ¡ a Start/Pause ¡ b utton in error condition, any error except '**PE**' will disappear and the machine will change into pause status.

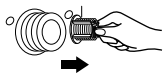
ƒ U In case of ¡ G **PE** ¡ H ¡ G **tE** ¡ H ¡ G **dE** ¡ H if the error is not resolved within 20 sec., and in case of other errors, if the error is not resolved within 4 min., power will be turned off automatically and the error only will be blinked. But in case of ¡ G **FE** ¡ , H power will not be turned off.

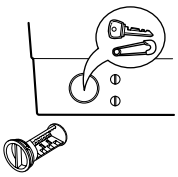
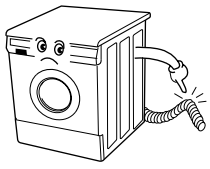
	ERROR	SYMPTOM		CAUSE
		WD-1050/1250	WD-8050/8052/1052	
1	WATER INLET ERROR	— no inlet —		§ Water has not reached to the pre-set level within 4 min. since inlet val ve operated or water has not reached to the normal level within 25 min.
2	IMBALANCE ERROR	— imbalance —		§ The appliance is tilted. § Laundry is gatherd to one side. § Non distributable things are put into the drum.
3	DRAIN ERROR	— no drain —		§ Water has not drained enough within 5 min.
4	OVER FLOW ERROR	FE	Pre ☼ Main ☼	§ Water is automatically being pumped out because too much water is in the tub.
5	SENSOR PRESSURE S/W ERROR	PE	Super Normal Hold	§ The sensor pressure switch is out of order.
6	DOOR OPEN ERROR	dE	Door ⊘ Lock	§ The ¡ a Start/Pause ¡ b button is pressed with the door open. § The door switch is out of order.
7	THERMISTOR ERROR	tE	95° 60° 40° Cold	§ The thermistor is out of order.

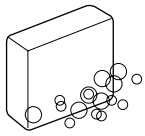
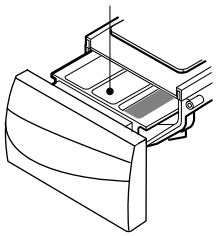
8. ERROR DIAGNOSIS AND CHEK LIST

8-1.DIAGNOSIS AND ANSWER FOR ABNORMAL OPERATION

<table>
<tr><th>SYMPTOM</th><th>GUIDE FOR SERVICE CALL</th></tr>
<tr><td>NO POWER</td><td>Is the power plug connected firmly to AC220-240V outlet?
YES
Power failure? or Breaker opened?
NO
Visit to check
 
  </td></tr>
<tr><td>Water inlet trouble
  </td><td>Is "no inlet" displayed?
YES
Is the tap opened?
YES
Is the tap frozen?
NO
Is the water supply shut-off?
NO
Is filter in the inlet valve clogged with foreign material?
YES
Clean the filter of inlet valve
NO
Visit to check
 

  </td></tr>
</table>

SYMPTOM	GUIDE FOR SERVICE CALL
¥ DOOR OPEN ERROR Refer to 7-4 ERROR DISPLAY	Did you press the ¡ÆStart/Pause¡Æ button when the door is open? **YES** → Close the door **NO** Visit to check **< Check if the door switch is O.K >**
¥ Drain Trouble \ | / — **no drain** — / | \	Is "no drain" displayed? **YES** Is the debris filter clogged with foreign material such as pin, coin and etc.? **YES** → Clean up the filter. **NO** Is the drain hose frozen with water, kinked or crushed? **NO** Visit to check \ | / — **no drain** — / |  

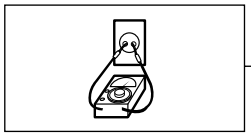
SYMPTOM	GUIDE FOR SERVICE CALL
¥ Suds overflow from the appliance. (In this condition, wash and spin do not operate normally)	Is Low-sudsing detergent for the durm washing machine used? **YES** Is the proper amount of detergent used as recommended? **YES** Recommend to reduce the using amount of detergent.  LOW LATHERING DETERGENT ƒT This appliance has the automatic suds sensing function which operates under much suds condition for good rinse and preventing overflow. ƒT When much suds are sensed, suds removing fuction such as drain, water input and pause will operate without rotating the drum.
¥ No effect of softener	Is softener put in the correct compartment of drawer? **YES** Is the drawer closed during wash? **YES** Is the softener cap clogged? **YES** Explain how to use softener **< Clean the compartment for softener >** Compartment for softener 
¥OVER FLOW ERROR ¥PRESSURE S/W ERROR ¥THERMISTOR ERROR Refer to 7-4. ERROR DISPLAY	Visit to check

8-2.FAULT DIAGNOSIS AND TROUBLE SHOOTING

CAUTION

1. Be careful of electric shock or disconnecting the parts while trouble shooting.
2. First of all, check the connection of each part terminal with wiring diagram.
3. Voltage between each terminal is AC 220-240V while applying an electric current (except secondary part of the transformer and sensors)

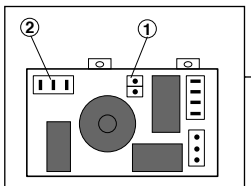
NO POWER



When measuring the voltage of the outlet, is the voltage AC 220-240V?

NO → Check the fuse?

YES

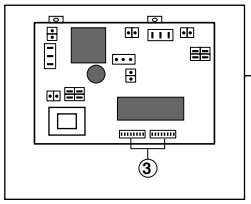


PWB ASSY (POWER)

When measuring the voltage of blue connector of the PWB assy (Power), is the voltage AC 220-240V?

NO → Replace PWB assy (Power)

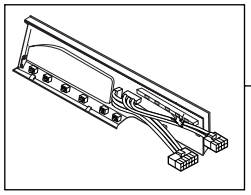
YES



Is ¤Øconnector disconnected or or is the contact bad or cut?

YES → Reconnect and repair connector.

NO



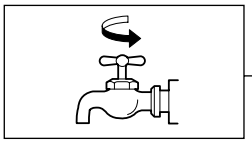
Is wire of the PWB assy(Display) disconnected?

NO → Replace PWB assy(Main)

YES

Replace PWB assy(Display)

NO WATER SUPPLY

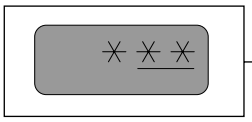


Is the water supply shut-off?

NO

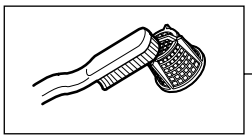
Is the tap opened? — **NO** → Open the tap.

YES



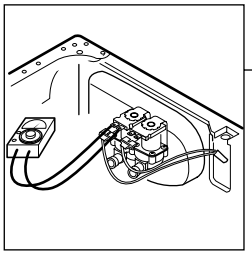
When you press both ¡ AWash ¡ Bbutton and ¡ ARinse ¡ B buttons simultaneously, is the water level frequency below 40? — **YES** → Check the chamber(Air) and the tube clogged with impurity.

NO



Is the inlet valve filter clogged with impurity? — **YES** → Clean the filter.

NO

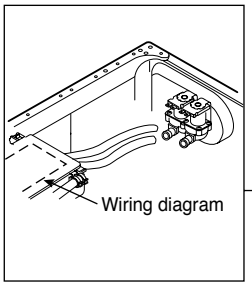


Is resistance of the inlet valve connector between 2 to 8 k§ ? — **NO** → Replace the inlet valve.

YES

Check the voltage between each terminal of inlet Valve is AV 220~240V.
(Refer to 7-2 TEST MODE) — **NO** → Replace PWB assy(Main)

DETERGENT DOES NOT FLOW IN

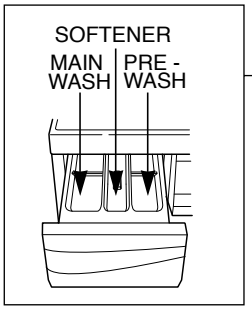


Is water supplied? — **NO** → Refer to solution ¡ ANO INLET ¡ B

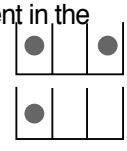
YES

Are replaceptacles correctly connected to the terminals of inlet valve? — **NO** → Check the wiring on the dispenser.

YES



Is detergent put in the correct compartment of the drawer? — **NO** → Put the detergent in the correct position



PRE+MAIN

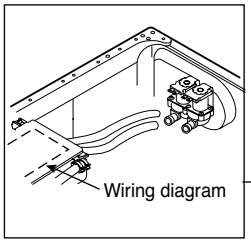
MAIN WASH

● : Detergent

YES

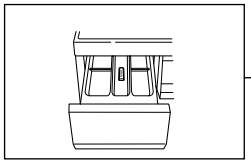
Is the detergent hardened? — **YES** → Clean the drawer.

SOFTENER DOES NOT FLOW IN

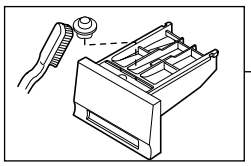


Is water supplied?
- NO → Refer to ¡ANO WATER SUPPLY¡B
- YES ↓

Are receptacles conectly connected to the terminals of inlet valve?
- NO → Check the wiring on the dispenser.
- YES ↓

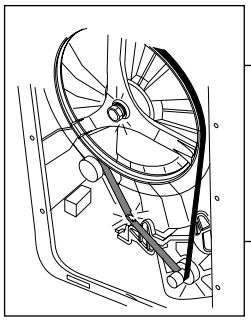


Is softener put in the correct compartment of drawer?
- NO → Put it in the correct compartment.
- YES ↓



Is the softner cap clogged?
- YES → Clean the cap and drawer.

ABNORMAL SOUND

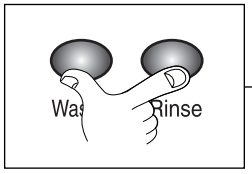


Is the pulley bolt loosened?
- YES → Fix the bolt tightly.
- NO ↓

Is the belt worn?
- YES → Replace the V-belt (4400FR3116A)
- NO ↓

Is there friction noise from the motor?
- YES → Replace the motor.

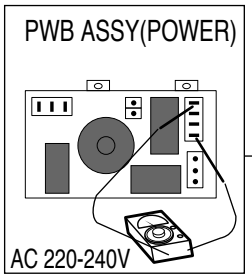
HEATING WITHOUT WATER



When pressing£ WASH£ and£ RINSE£ buttons at the same time after dranining, is the water level frequency 52 or more?
When pressing£ WASH£¨ RINSE£ buttons at the same time while wash, is the water level frequency between 20~40?

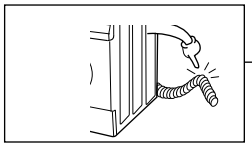
NO → Replace the sensor (pressure)

YES



Replace the PWB assy (POWER or MAIN)

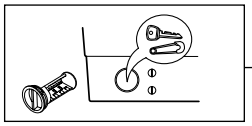
DRAIN MALFUNCTIONING



Is the drain hose kinked or frozen?

YES → Repair drain hose

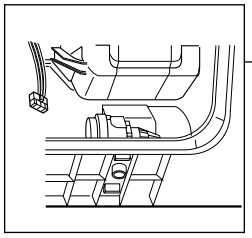
NO



Is the filter of drain pump clogged?

YES → Remove foreign material.

NO



Is the connector disconnected or is the contact bad?

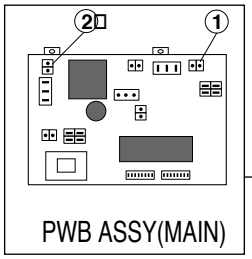
YES → Reconnect or repair the connector

NO

Is the coil of drain pump cut-off?
(resistance of coil is 90~160¥)

YES → Replace the pump assy

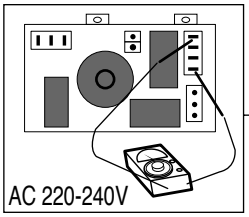
NO



When checking voltage between two receptacles as shown (¥L, ¥M) on spinning, is the voltage AC 220-240V ?

NO → Replace the PWB assy (Main)

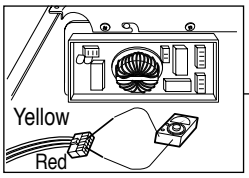
WASH HEATER TROUBLE



When checking the voltage between two receptacles of the PWB assy(Power) during washing.
Is the voltage AC 220-240V?

NO → Replace the PWB assy (Power)

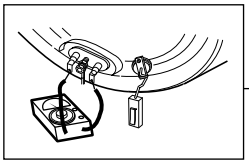
YES



After power off, is the resistance between yellow wire and red wire of connector 10 to 30¥ ?

YES → Normal

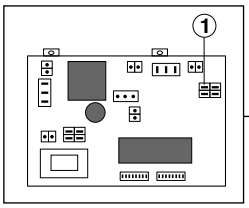
NO



After power off, is the resistance of heater 10 to 30¥ ?

NO → Replace the heater assy

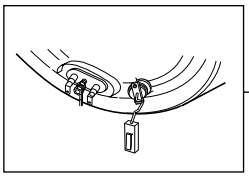
HEATING WATER CONTINUOUSLY ABOVE THE SELECTED WATER TEMPERATURE



Is the resistance between two receptacles with BL/WH wires parted from PWB assy 2.5k¥ to 180k¥ (105¡ ~0¡)?

NO → Replace the thermistor (6322FR2046B)

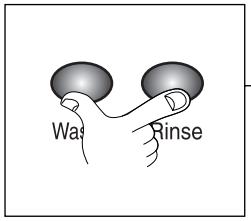
YES



When checking thermistor on the tub cover, is the thermistor gotten more than 2 mm out of the rubber?

YES → Get the thermistor back to the rubber.

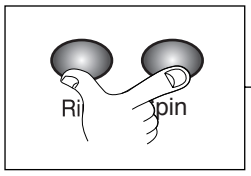
SPIN TROUBLE



Check the frequency of the water level 48 or more. The frequency can be checked by pressing the£ Wash£ and£ Rinse£ buttons at the same time.

NO → Check the sensor (Pressure) or hose (Sensor). If the problem is on the sensor or the hose, replace the sensor or the hose.

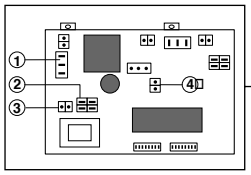
YES



Press£ Power£ button with both£ Rinse£ and£ Spin£ buttons pressed after power off. Press£ Start/Pause£ button 2 times. Does the drum rotate at low spin speed?

YES → Normal

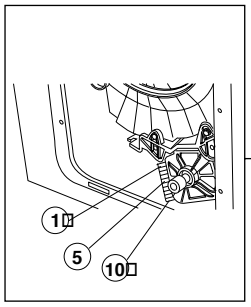
NO



Is it disconnected or badly contacted?
¡ aNatural:3pin(¤),Red:4pin(¤Ł),Blue:2pin(¤Ø),
Yellow:2pin(¤Œ) ¡ b

YES → Reconnect or repair it.

NO



Check the motor connector, is the resistance between the terminal in figure the same as below?

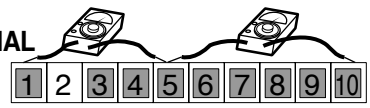
Resistance between terminals

¤ ~¤ º:0.5~1.0§

¤ º~¤ :1.5~2.5§

Be sure to unplug the machine before measuring.

MOTOR TERMINAL



NO → Replace the motor assy. (4681FR1194A)

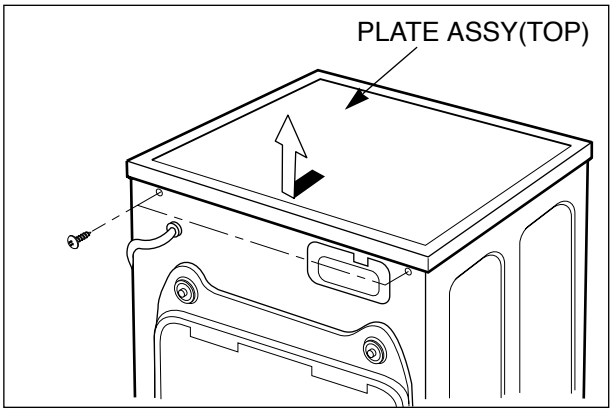
YES

Replace the PWB assy (Main)

9. DISASSEMBLY INSTRUCTIONS

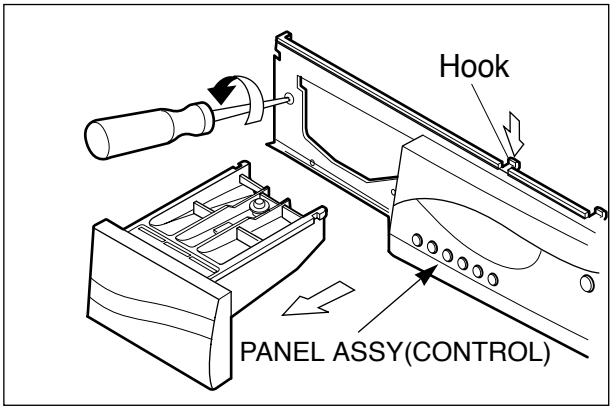
ƒRBe sure to unplug the machine out of the outlet before disassembling and repairing the parts.

CONTROL PANEL



¤ Unscrew 2 screws on the back of the top plate.

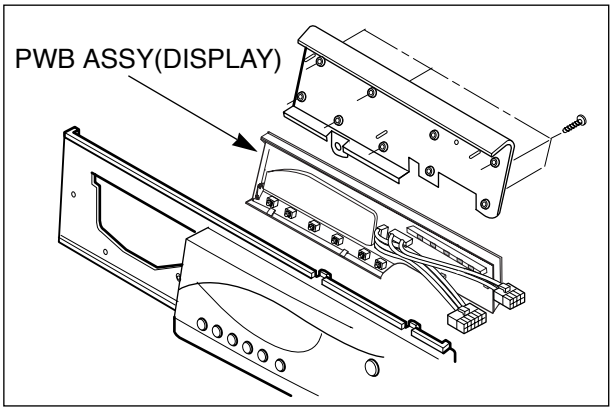
¤Ł Pull the top plate backward and upward as shown.



¤ Disconnect the PWB assy (Display) connector.

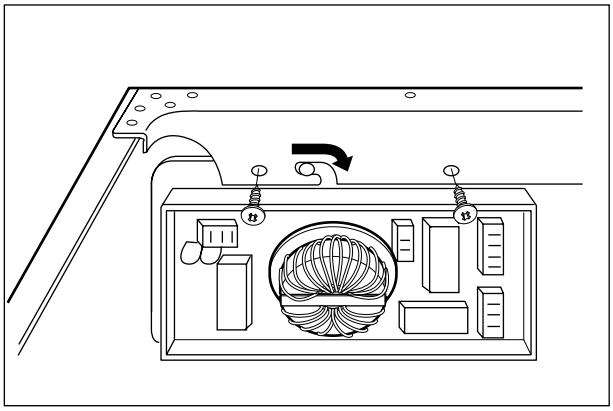
¤Ł Pull out the drawer and unscrew 3 screws.

¤Ø Push 2 upper hooks down and pull the control panel.



¤ Disconnect the PWB assy (Display) from the control panel by unscrewing 9 screws.

PWB ASSY(POWER)

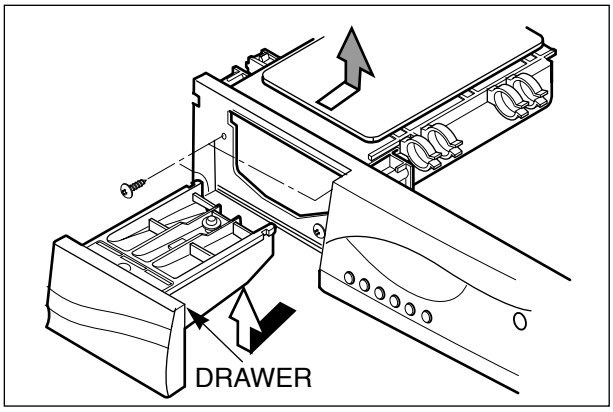


¤ Disassemble the top plate assy.

¤Ł Unscrew 2 screws.

¤Ø Disconnect connector from the wiring.

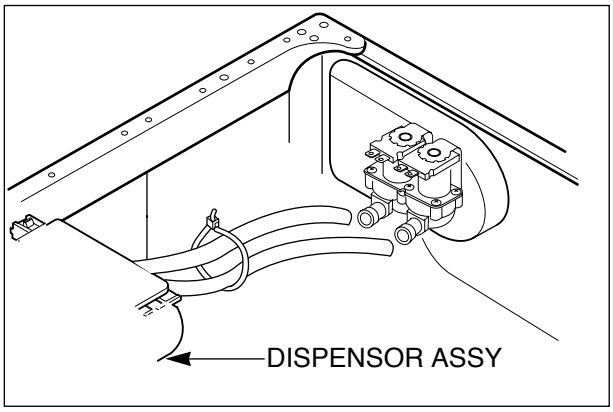
DISPENSER ASSY



¤ Disassemble the top plate assy.

¤Ł Pull out the drawer slightly upward.

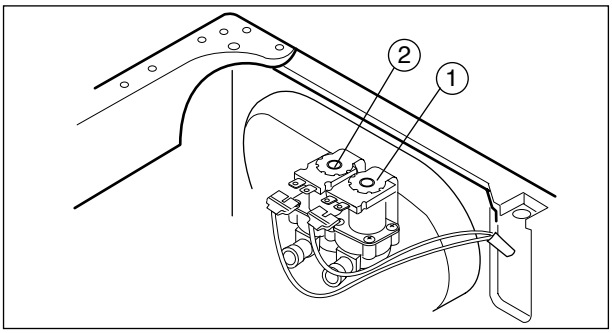
¤Ø Unscrew 2 screws.



¤ Disassemble hose clamps and hoses

¤Ł Disassemble ventilation bellows and water inlet bellows from tub.

INLET VALVE



¤ Disconnect the wiring receptacle.

¤Ł Unscrew 2 screws from the back.

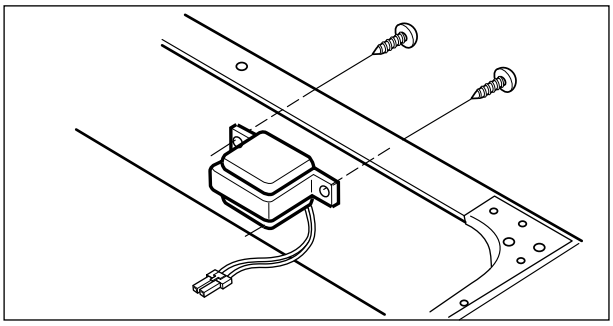
¡ When reconnecting the connector

VALVE#1(MAIN)	White/Black - Black
VALVE#2(PRE)	Gray/White - Black

VALVE#3(HOT)	Blue/Red - Black

(Option)

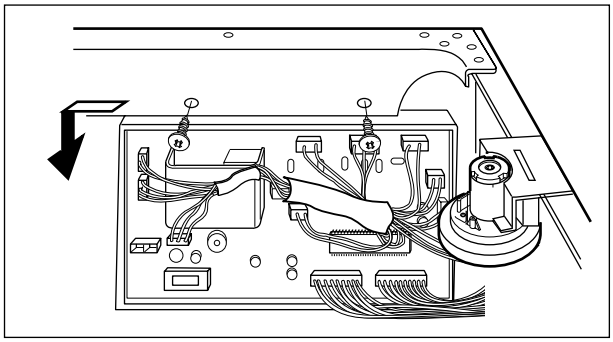
REACTOR



¤ Unscrew 2 screws

¤Ł Disconnect the wiring connector from the PWB assy(Msin)

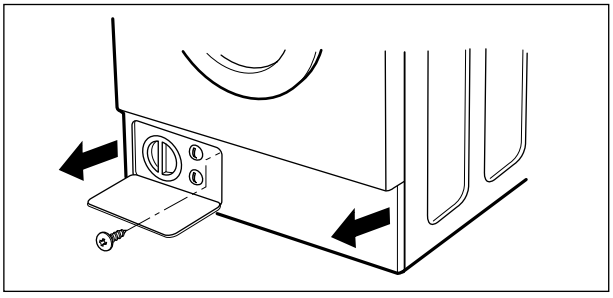
PWB ASSY(MAIN)



¤ Unscrew 2 screws

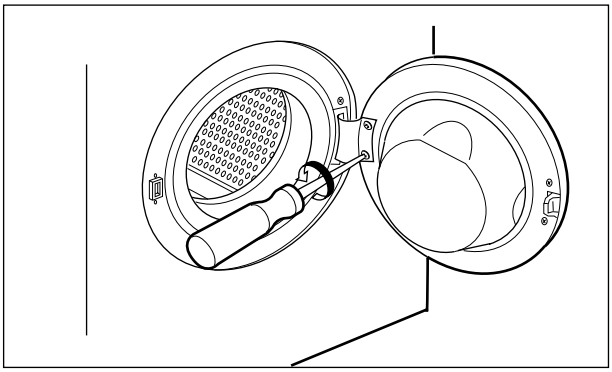
¤Ł Pull the PWB assy(Main) as shown.

LOWER COVER



¡Æ Open the lower cover plate by using coin and pull out the lower cover in the arrow direction after a screw is unscrewed.

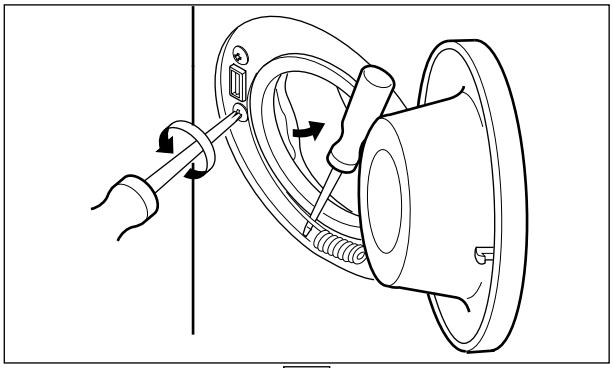
DOOR



¤ Open the door completely.

¤Ł Remove the two screws from the hinge.

GASKET ASSY

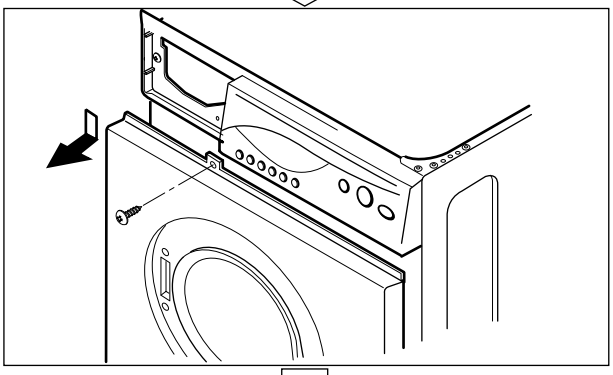


¤ Take apart the cabinet gasket clamp.

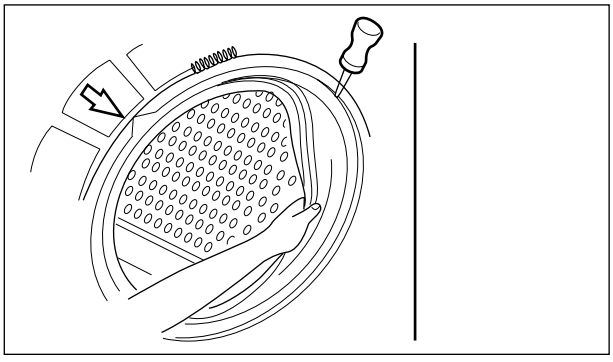
¤Ł Unscrew 2 screws from the cabinet cover.

¤Ø Open the lower cover cap and unscrew 1 screw inside

¤Œ Take apart the lower cover



¤ Unscrew all the screws on the upper and lower sides of the cabinet cover.

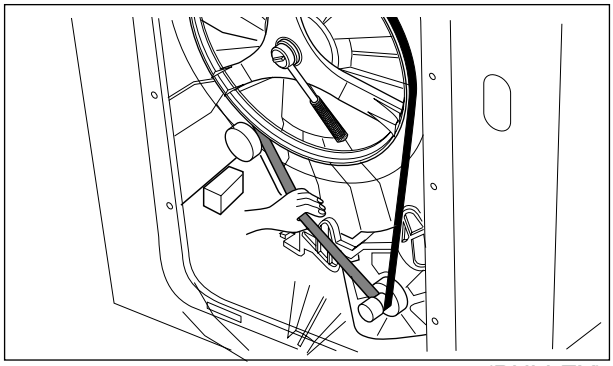


¤ Take apart the tub gasket clamp

¤Ł Make sure that the drain hole of the gasket is put beneath when reassembling the gasket.

¡ Refer to the arrow mark on the tub cover.

PULLEY, MOTOR, DAMPER

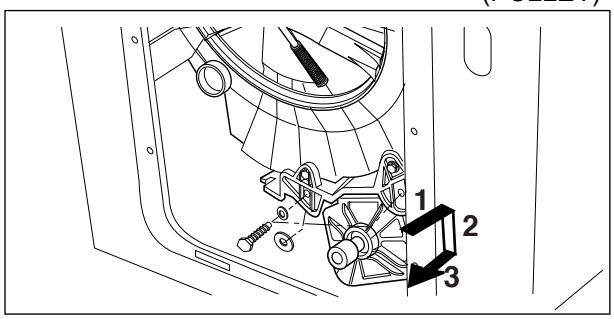


(PULLEY)

¤ Remove the back cover.

¤Ł Take off the belt turning the pulley.

¤Ø Unscrew the bolt to pull out the pulley.

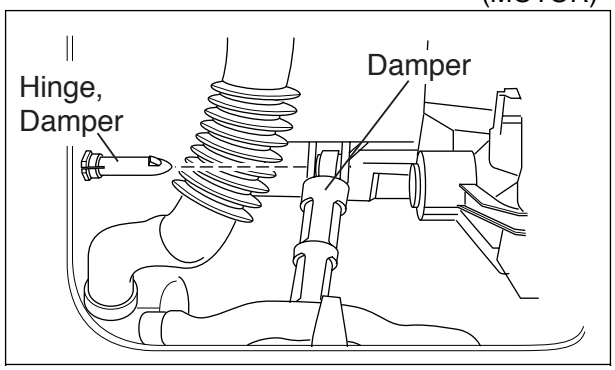


(MOTOR)

¤ Unscrew 2 screws from the bracket.

¤Ł Push the motor in the arrow direction for disassembling.

¤Ø When reassembling the motor, make sure that motor mounting rubbers are not taken off from the bracket.

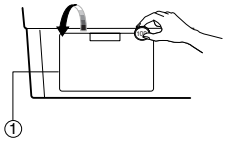


(DAMPER)

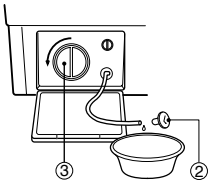
¤ Pull out the hinge pressing its snap.

¤Ł Do not use the pulled out hinge again..it may be taken off during operation.

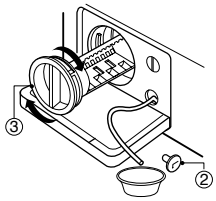
§ Clean the drain pump filter



Open the lower cover cap (¥L) by using coin.Turn the drain plug (¥M) to pull out the hose.

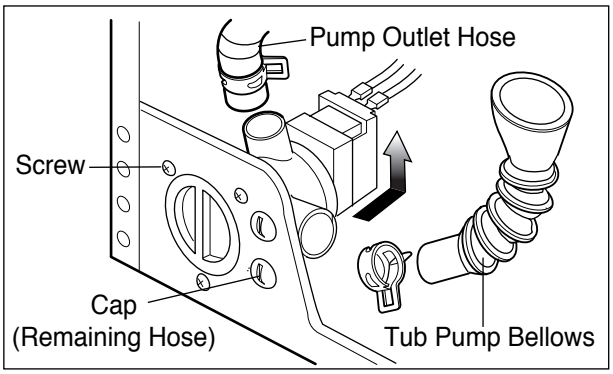


Unplug the drain plug (¥M) , then the water flows out,
At this time use a vessel to prevent water flowing on the floor. If the water does not flow any more,turn the pump filter (¥N) open to the left.
Take out any foreign material



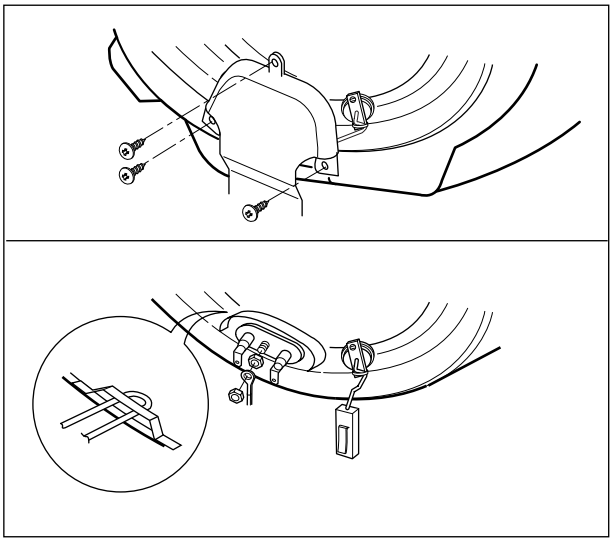
from the pump filter (¥N). After cleaning, turn the pump filter(¥N) clockwise and insert the drain plug (¥M)to the original place. close the lower cover cap.

PUMP



¤ Remove pump outlet hose.
¤Ł Remove tub pump bellows.
¤Ø Remove cap(Remaining Hose.)
¤Œ Disconnect the wiring.
¤º Unscrew 3 screws
¤ Remove the pump.

HEATER

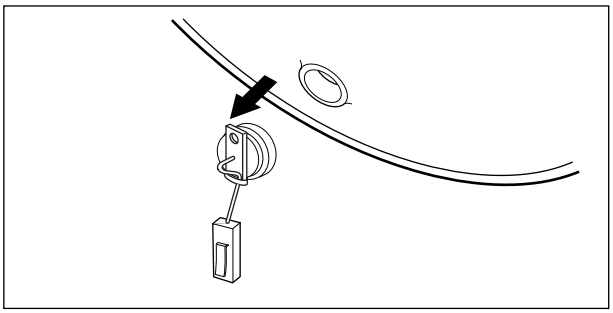


¤ Unscrew 3 screws fixing the heater protecting cover.
¤Ł Loosen the M6 heater nut to pull out the heater.

CAUTION

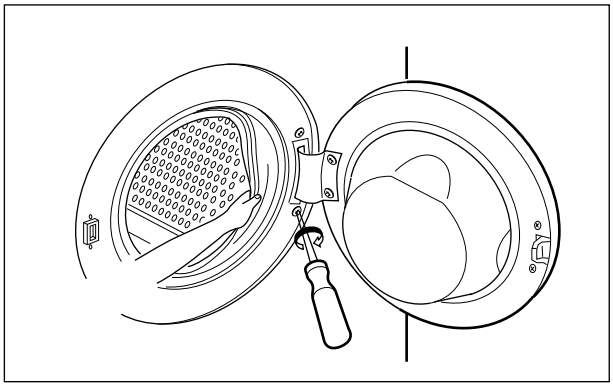
When mounting the heater, be sure to insert the heater into the heater clip on the bottom of the tub.

THERMISTOR



¤ Pull it out by holding the thermistor bracket.
ƒT If it is pulled by the wire, it may be broken.
¤Ł When mounting the thermistor again, make sure that it is got back tight to the rubber.

DOOR HINGE ASSY



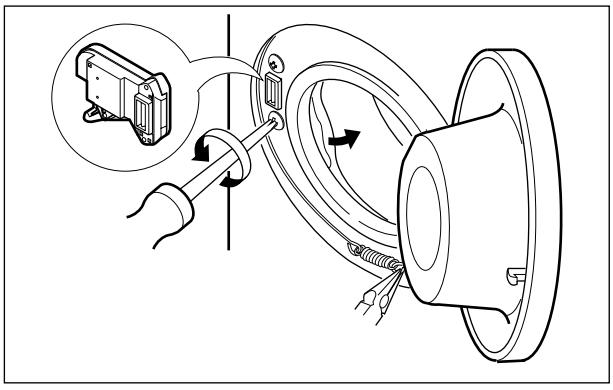
¤ Disassemble the door from the door hinge.

¤Ł Take apart the cabinet cover clamp and release the gasket.

¤Ø Unscrew 2 screws on the door hinge.

¤Œ Push the door hinge arm to the inside of the cabinet cover for disassembling.

SWITCH ASSY, DOOR LOCK

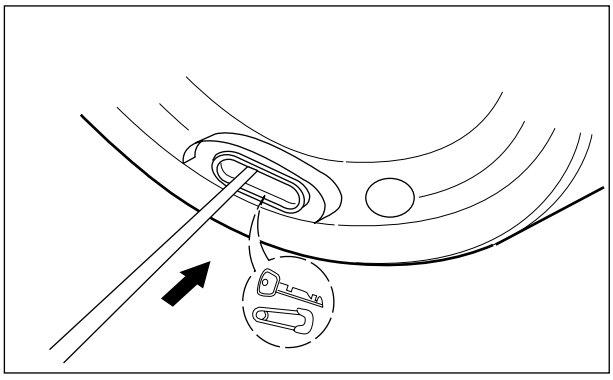


¤ Take apart the cabinet cover clamp and release the gasket.

¤Ł Unscrew 2 screws holding the Door Lock.

¤Ø Disconnect the door lock from the wiring connector.

WHEN FOREIGN MATERIAL IS STUCK BETWEEN DRUM AND TUB

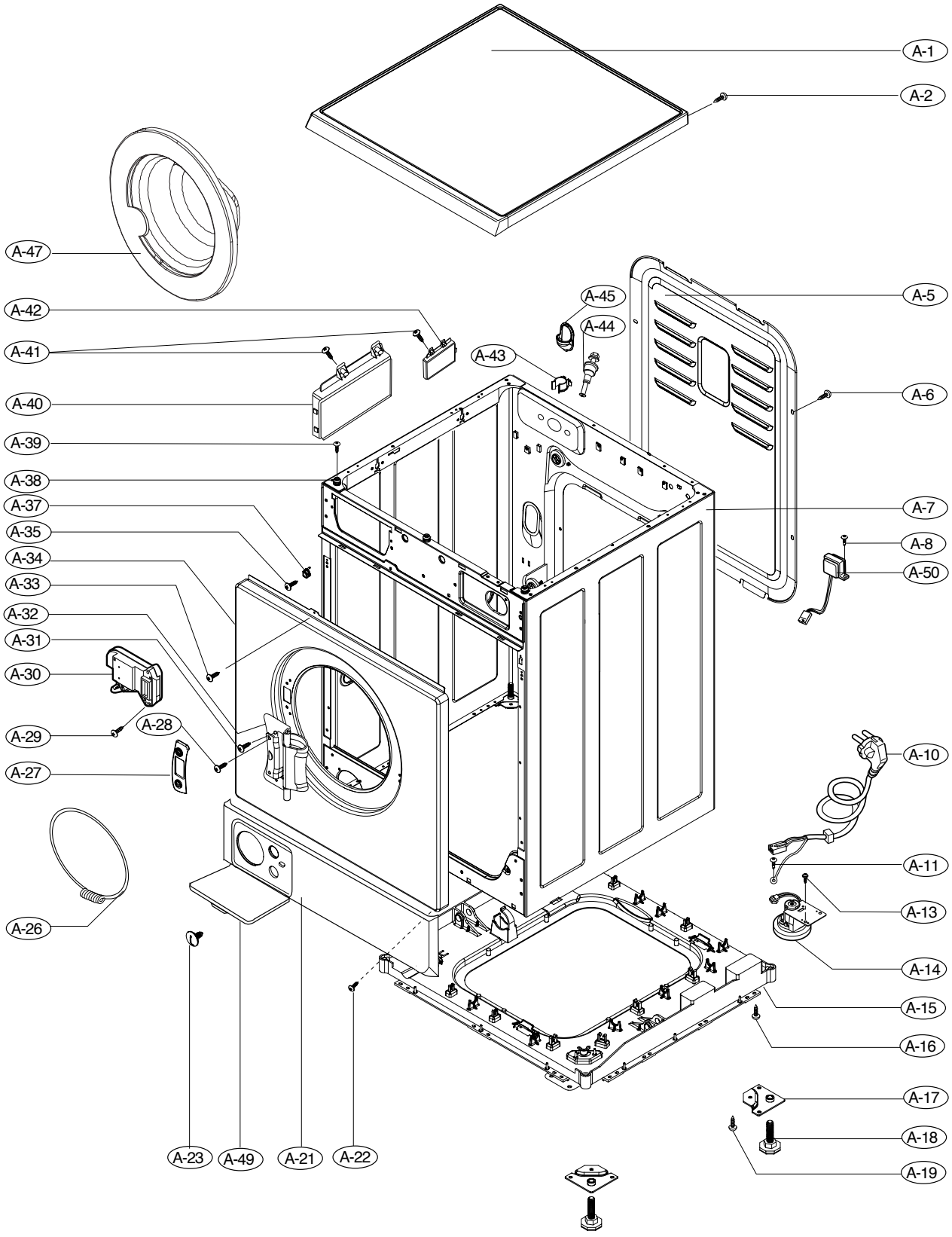


¤ Remove the heater.

¤Ł Remove the foreign material (wire, coin and others) by inserting a long bar through the hole.

10. EXPLODED VIEW AND PART LIST

10-1.THE PART LIST OF CABINET ASSY

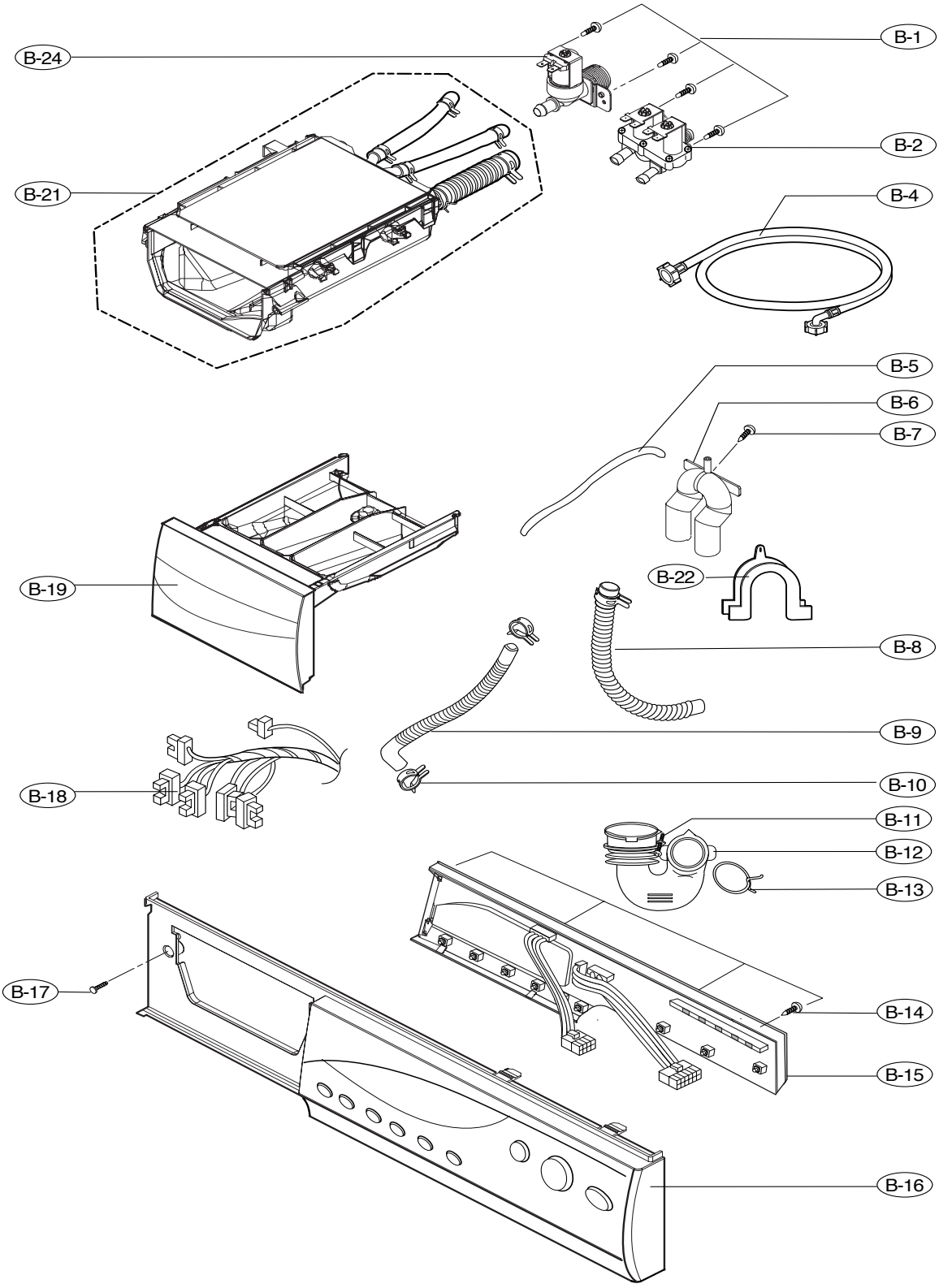


¡ÆTHE PART LIST OF CABINET ASSY

L/No.	PART NAME	PART NO.	SVC CORD	Q¡TTY	SPEC
A-1	PLATE ASSY(TOP)	3828ER1001A	R	1	
A-2	SCREW, TAPPING£ TRUSS HEAD £	1TTL0403018			
A-5	BACK COVER	3808FR1202A		1	
A-6	SCREW, TAPPING£ TRUSS HEAD £	1TTG0402618		4	
A-7	CABINET ASSY	3091FR0045A		1	
A-8	SCREW, TAP TITE(S£ BINDING HEAD £	1SBF0402418			
A-10	POWER CORD ASSY	6411FR1169B		1	C-4-2
	*See Appendix(type of power cord)	6411FR1169D		1	S-2-1
		6411FR1169E		1	B-5
		6411FR1169F		1	B-3
		6411FR1169K		1	B-3(BSI)
		6411FR1169L	R	1	B-3(SISIR)
		6411FR1169N		1	C-4-2
		6411FR1169P		1	S-2-3
		6411FR1169Q		1	S-2-1
A-11	SCREW	4000W4A003A		1	
A-13	SCREW, TAP TITE(S£ BINDING HEAD £	1SBF0402618		1	
A-14	SENSOR PRESSURE	6600FR1203F	R	1	
A-15	BASE	3040FR0049A		1	
A-16	SCREW, TAPPING£ TRUSS HEAD £	1TTG0403018		24	
A-17	BRACKET, BASE	4810FR4136A		4	
A-18	FEET ASSY	5413FR4154A	R	4	
A-21	COVER, LOWER	3550FR1166A	R	1	
A-22	SCREW, TAPPING£ TRUSS HEAD £	1TTG0402618		3	
A-23	CAP(REMAINING HOSE)	5006FR3146A		1	
A-26	CLAMP ASSY, CABINET GASKET	2W20017A		1	
A-27	GUIDE	4974ER4001A		1	
A-28	SCREW	4000FD4191A		2	
A-29	SCREW, TAPPING6 TRUSS HEAD £	1TTL0403032		2	

L/No.	PART NAME		PART NO.	SVC CORD	Q¡TIY	SPEC
A-30	SWITCH ASSY, DOOR LOCK		6601ER1001A	R	1	220-240VAC
A-31	SCREW		4000FD4191A		2	
A-32	HINGE ASSY		4775FR2114A		1	
A-33	SCREW, TAPPING(6 TRUSS HEAD £		1TTL0403032		1	
A-34	COVER, CABINET		3550FR1213A		1	
A-35	SCREW, TAP TITE(C(PAN HEAD £		1TPL0402618		2	
A-37	HOLDER		4930FR4157A		2	
A-38	HOLDER		4930ER4001A		3	
A-39	SCREW, TAP TITE(S(PAN HEAD£		1SCBF040327		3	
A-40	PWB ASSY(MAIN)	WD-1050F/1250F/1052X/8050F&8052X	6871FC1006A/C/E/G	R	1	220-240VAC
		WD-1050FH/1250FH/1052XH/8050FH&8052XH	6871FC1006B/D/F/H		1	220-240VAC
A-41	SCREW, TAPPING(6 TRUSS HEAD £		1TTL0403018		4	
A-42	PWB ASSY (POWER)		6871FC2262C	R	1	220-240VAC
A-43	HOLDER		4930FR3151A		1	
A-44	BOLT ASSY, TRANSIT		4011FR3159A		4	
A-45	BUSHING		4830FR3107A		1	
A-47	DOOR ASSY		3581ER1001A		1	
A-49	LOWER COVER CAP		5006FR3179A	R	1	
A-50	REACTOR		5874FA2381B	R	1	SEMKO

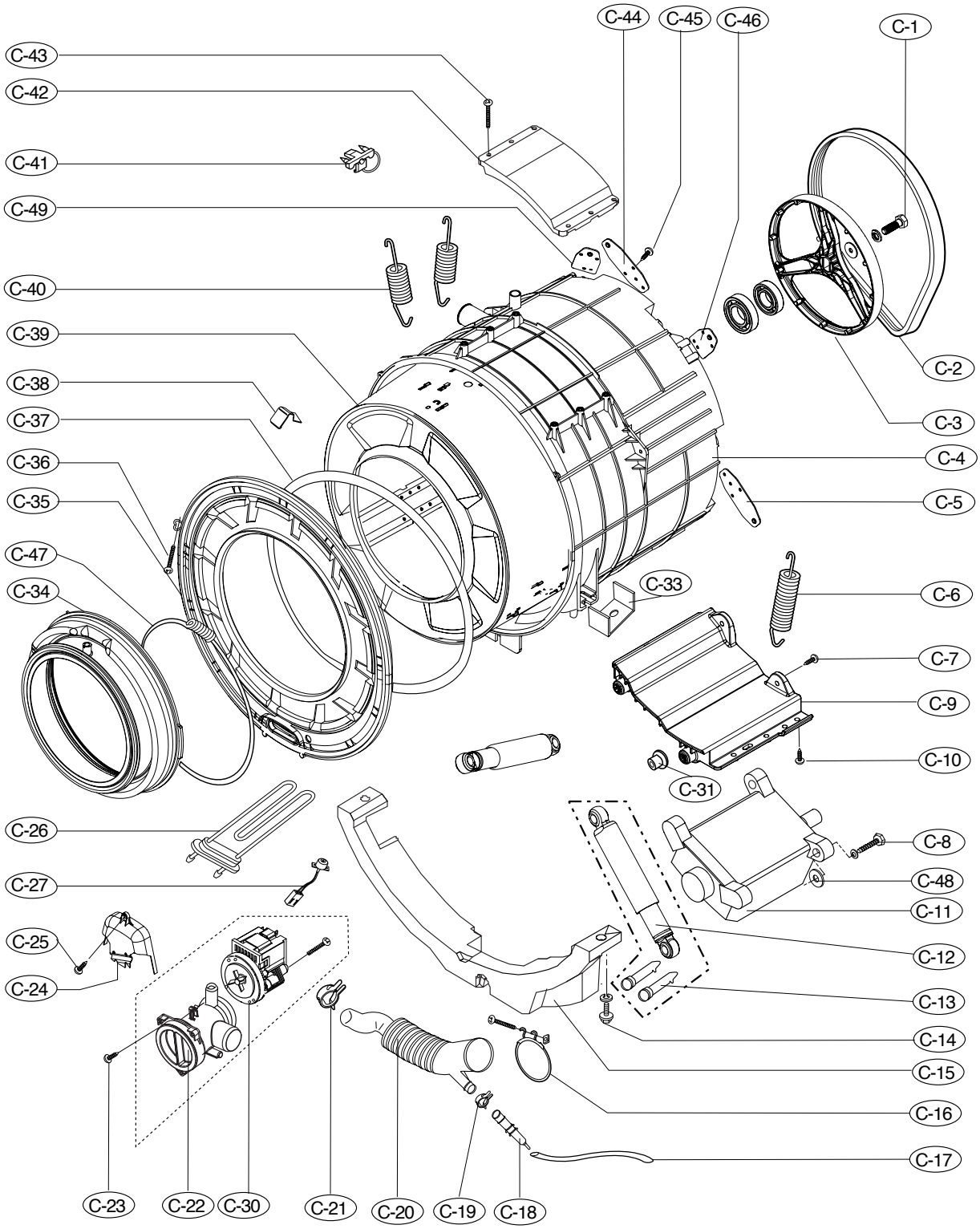
10-2 THE EXPLODED VIEW OF CONTROL PANEL & DISPENSER ASSY



¡ÆTHE PARTS LIST OF CONTROL PANEL & DISPENSER ASSY

L/No.	PART NAME		PART NO.	SVC CORD	Q¡TY	SPEC
B-1	SCREW, TAP TITE(S)£ PAN HEAD £		1SCPF040268		2	
B-2	VALVE		5220FR1251A	R	1	220-240VAC
B-4	HOSE ASSY, INLET		5214FA1146	R	1	
			5215FD3715	R	1	
			3W40102	R	1	
B-5	HOSE		5214FR4125B		1	
B-6	CONNECTOR (MECH), DRAIN HOSE		4932FR3156A		1	
B-7	SCREW, TAP TITE(B)£ FLAT HEAD £		1SBF0402618		1	
B-8	HOSE ASSY, DRAIN		5214FR3018B	R	1	
B-9	HOSE, PUMP		5214FR3188A	R	1	
B-10	CLAMP		4861FR3068C		2	
B-11	CLAMP		4860FR3092D		1	
B-12	BELLOWS		4738FR2065A	R	1	
B-13	RING, SNAP		3W500120		1	
B-14	SCREW		4W51132A		9	
B-15	PWB ASSY(DISPLAY)	WD-1050F(H)/1250F(H)	6871EC2002A/B	R	1	
		WD-1052X(H)/8050F(H)&8052X(H)	6871EC2002C/D	R	1	
B-16	PANEL ASSY, CONTROL		3721ER1003	R		
B-17	SCREW, TAPPING£ TRUSS HEAD £		1TTL0403332		1	
B-18	LEAD WIRE ASSY		6877ER1001C		1	
B-19	PANEL ASSY, DRAWER		3721ER1002	R	1	
B-21	DISPENSER ASSY	WD-8050F/8052X	4925FR1137C	R	1	
		WD-8050FH/8052XH	4925FR1137A		1	
		WD-1050F/1052X/1250F	4925FR1137F		1	
		WD-1050FH/1052XH/1250FH	4925FR1137G		1	
B-22	DRAIN HOSE HANGER		3W50712A		1	
B-24	VALVE	WD-ƒSSSSS H Series	5220FR1280A	R	1	220-240VAC

10-3 THE EXPLODED VIEW OF DRUM & TUB ASSY

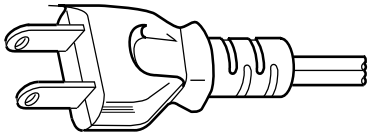
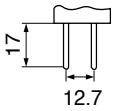
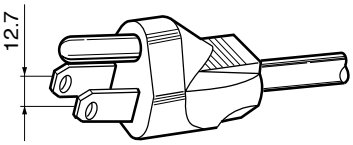
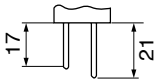
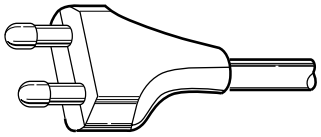
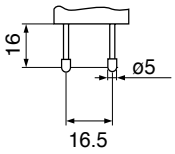
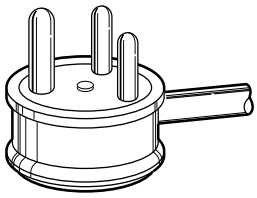
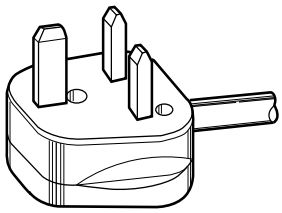
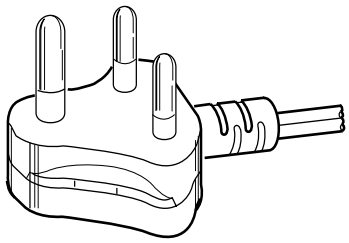
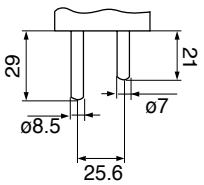
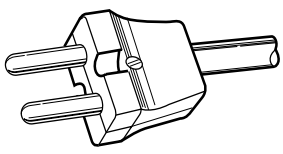
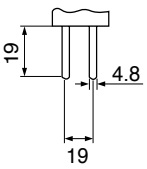


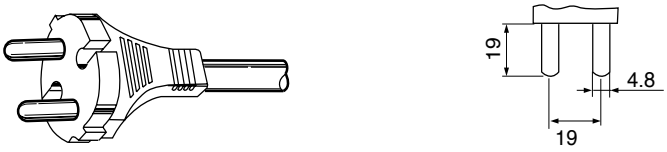
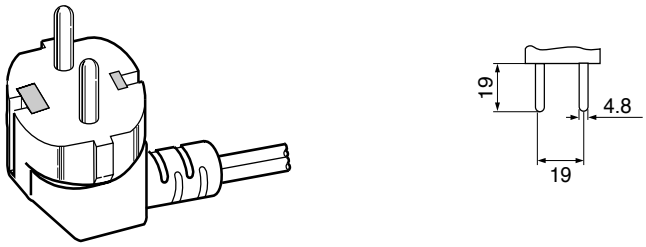
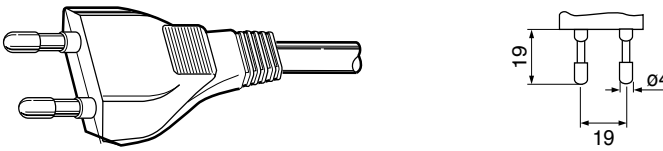
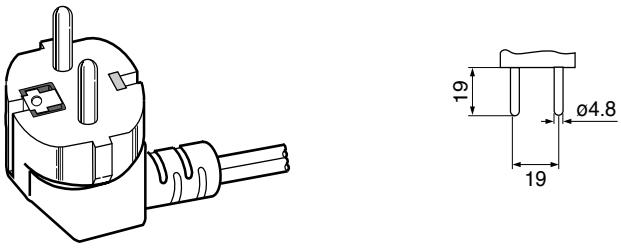
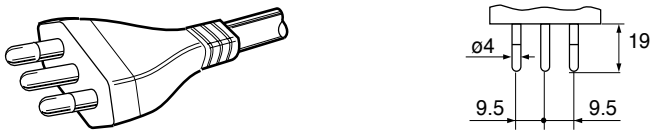
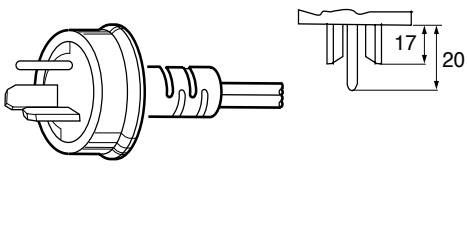
¡ÆTHE PART LIST OF DRUM & TUB ASSY

L/No.	PART NAME	PART NO.	SVC CORD	Q¡Ti'Y	SPEC
C-1	BOLT ASSY	4011FR3173A		1	
C-2	BELT, POLY-V	4400FR3116A	R	1	
C-3	PULLEY	4560FR1149A	R	1	
C-4	TUB ASSY	3045FR0031C		1	
C-5	BRACKET	4810FR4167A		1	
C-6	SPRING	4970FR2084B	R	1	
C-7	SCREW	1SZZFA4362A		2	
C-8	SCREW	4040FR4051F		2	
C-9	BRACKET, MOTOR	4810FR1222B	R	1	
C-10	SCREW	1SZZFA4362A		4	
C-11	MOTOR ASSY	4681FR1194A	R	1	220-240VDC
C-12	DAMPER ASSY	4901FR2080A	R	2	
C-13	HINGE	4774FR3118A	R	4	
C-14	BOLT ASSY	4011FR3173B		3	
C-15	WEIGHT, BALANCE	4844FR1179A		1	
C-16	CLAMP	4860FR3092C		1	
C-17	HOSE(SENSOR)	5214FR4125A	R	1	
C-18	CHAMBER, AIR	3504FR3134A	R	1	
C-19	CLAMP, HOSE	4861FR3068C		1	
C-20	BELLOWS	4738FR1145A	R	1	
C-21	CLAMP, HOSE	4861FR3068E		1	
C-22	PUMP ASSY(DRAIN)	5859FR1225E	R	1	220-240VAC/50Hz
		5859FR1225F		1	220V/60Hz
C-23	SCREW, TAPPING(TURSS HEAD)	1TTL0403018		3	
C-24	PROTECTOR (MECH)	3740FR3043A		1	
C-25	SCREW, TAPPING(TURSS HEAD)	1TTL0403318		2	
C-26	HEATER ASSY	5301FR1158B	R	1	240VAC2000W
		5301FR1158C		1	220VAC2000W
		5301FR1158D		1	230VAC2000W

L/No.	PART NAME		PART NO.	SVC CORD	Q¡TY	SPEC
C-27	THERMISTOR		6322FR2046B	R	1	
C-30	PUMP MOTOR		4681EA2001A		1	220-240VAC 50Hz
			4681EA2001B		1	220VAC60Hz
C-31	RUBBER		5040FR4168A		4	
C-33	BRACKET		4810FR4116A		3	
C-34	GASKET ASSY	WD-1050/1052/1250 series	4987FR1165B	R	1	220-240VAC 50Hz
		WD-8050/8052 series	4986FR1230B	R	1	
C-35	COVER, TUB		3044FR0027A		1	
C-36	SCREW, TAPPING£ TURSS HEAD £		1TTL0403318		3	
C-37	SEAL		4036FR4123A		1	
C-38	CLAMP, TUB		4860FR4124A		11	
C-39	TUB, DRUM ASSY		3044FR0036C		1	
C-40	SPRING		4970FR2084A	R	2	
C-41	HOLDER(SPRING)		4930FR3040A	R	3	
C-42	WEIGHT, BALANCE		4844FR1223A		1	
C-43	SCREW		1SZZFA4362A		6	
C-44	BRACKET		4810FR4166A		1	
C-49	SCREW		1TTL0503518		12	
C-46	BRACKET		4810FR4126A		2	
C-47	TUB GASKET CLAMP ASSY		4861ER2001A	R	1	
C-48	NUT		1NZZFR4175A		2	
C-49	BRACKET (UPPER RIGHT)		4810FR4126B		2	

¡ÆAPPENDIX(The type of power cord)

TYPE	TYPE OF PLUG	POWER CORD P/No.
A-1	 	□ -
A-2	 	-
B-1	 	-
B-2		2A 2PIN 3.5Ø□EPIN 5Ø□ 5A 2PIN 5Ø□ EPIN 7Ø□ 15A 2PIN 7Ø□EPIN 8.6Ø□
B-3		6411FR1169F
B-5	 	6411FR1169E
C-1	 	-

TYPE	TYPE OF PLUG	POWER CORD P/No.
C-2-1		-
C-2-2		6411FD1096V
C-3-1		-
C-3-2		-
C-4-2		6411FR1169B 6411FR1169N
C-5		-
S-2-1		6411FR1169D 6411FR1169P 6411FR1169Q